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PERSONAL.

Mr. O. W. Holl has been appointed Principal Assistant City Engineer at Canton, O.

Mr. Charles A. Beach has been appointed Superintendent of the Philadelphia & Reading Ry.

Mr. John C. Shedd, Ph. D., has been appointed Professor of Physics at Colorado College.

Mr. J. E. Toohey has resigned as Superintendent of Bridges and Buildings of the Central Vermont Ry.

Mr. Frank M. Smith has succeeded Mr. William G. Smith as Chief Engineer of the Albany & Hudson Ry. & Power Co.

Mr. Fred. Hoover, Civil Engineer, of Kansas City, Mo., was married, Aug. 29, to Miss Gertrude Montague, of Traverse City, Mich.

Mr. A. Barmann has been appointed Resident Engineer of the San Francisco & San Joaquin Valley Ry., with headquarters at Stockton, Cal.

Mr. Charles D. Watson, of the Osborn Engineering Co., Cleveland, O., was married, Aug. 30, to Miss Jessie Helen Fish, of South Brooklyn, Ohio.

Mr. Leffert L. Buck, Chief Engineer of the New East River Bridge, New York city, has been compelled by ill health to drop his work temporarily.

Mr. J. A. Ockerson, M. Am. Soc. C. E., who served as a juror at the Paris Exposition in the class of Civil Engineering, has returned to the United States.

Mr. E. G. Russell, General Superintendent of the Delaware, Lackawanna & Western R. R., has resigned. He will be succeeded by Mr. Thomas E. Clarke.

Mr. Joseph L. Wickes, until lately Engineer of the Panama R. R., has been appointed Principal Assistant Engineer of the Pittsburg, Binghamton & Eastern Ry.

Mr. Charles H. Clark has been appointed Civil Engineer and Chief Inspector of the dam being constructed at Trenton Falls, N. Y., for the Utica Electric Light & Power Co.

Col. Michael Barhartkin, of the Imperial Russian Navy, who has been at Homestead, Pa., inspecting armor for Russian ships, has been ordered to China and has left for St. Petersburg.

Mr. H. Fernstrom has resigned as Chief Engineer of the Chicago Great Western Ry. Until the appointment of a successor his duties will devolve upon Mr. W. H. Knowlton, Assistant Chief Engineer.

Dr. Selim H. Peabody, Historian of the United States Commission at the Paris Exposition, has been appointed Superintendent of the Department of Liberal Arts at the Pan-American Exposition at Buffalo, N. Y.

OBITUARY.

Mr. Edward K. Washburn, President of the Kansas City, Fort Scott & Memphis R. R., died, Aug. 31, at Rye Beach, N. H.

Mr. Nathan S. Fisher, Civil Engineer, died at Amador City, Cal., Aug. 30. Mr. Fisher graduated at Cornell University in 1899.

Mr. Horace C. Schenck, a Civil Engineer in the employ of the Eastern Minnesota R. R., lost his life at Kelsey, Minn., Aug. 24, while attempting to rescue his son from drowning.

Sir John Bennet Lawes, noted for his work in practical and scientific agriculture, died in London, Eng., Aug. 31. His great discovery was that an artificial supply of nitrogen is necessary to maintain the fertility of the soil.

ENGINEERING SOCIETIES.

COMING GENERAL MEETINGS.

IRON AND STEEL INSTITUTE OF GREAT BRITAIN.
Sept. 10. At Paris, France. Secy., Bennet H. Brough, 28 Victoria St., London, S. W., England.
RAILWAY SIGNALING CLUB.
Sept. 11. At Atlantic City, N. J. Secy., C. O. Tilton, West Milwaukee, Wis.
STREET RAILWAY ASSOCIATION OF THE STATE OF NEW YORK.
Sept. 11 and 12. Fall meeting at Buffalo, N. Y. Secy., Henry A. Robinson, 621 Broadway, New York city.
STREET RAILWAY ASSOCIATION OF THE STATE OF NEW YORK.
Sept. 18 and 19. At Buffalo, N. Y. Secy., H. A. Robinson, Solicitor Metropolitan Ry. Co., New York City.
AMERICAN BOILER MANUFACTURERS' ASSOCIATION.
Sept 18 to 20. Annual meeting at Cincinnati, O. Secy., J. D. Farasey, Cleveland, O.
EASTERN MAINTENANCE OF WAY ASSOCIATION.
Sept. 19 to 21. Annual meeting at Saratoga Springs, N. Y. Secy., F. C. Stowell, Ware, Mass.
NATIONAL ASSOCIATION OF MUNICIPAL ELECTRICIANS.
Sept. 25 to 27. Annual meeting at Pittsburg, Pa. Secy., Secy., Geo. H. F. Cottel, City Electrician, Boston, Mass.
PENNSYLVANIA STREET RAILWAY ASSOCIATION.
Oct. 10 and 11. Annual meeting at Reading, Pa. Secy., S. P. Light, Lebanon, Pa.
AMERICAN INTERNATIONAL ASSOCIATION OF RAILROAD SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 16. Annual meeting at St. Louis, Mo. Secy., S. F. Patterson, Concord, N. H.
AMERICAN STREET RAILWAY ASSOCIATION.
Oct. 16 to 19. Annual meeting at Kansas City, Mo. Secy., T. C. Pennington, 2020 State St., Chicago, Ill.
AMERICAN GAS LIGHT ASSOCIATION.
Oct. 17 to 19. Annual meeting at Denver, Colo. Secy., Alfred E. Forstall, 58 William St., New York city.
AMERICAN RAILWAY ASSOCIATION.
Oct. 24. Annual meeting at Boston, Mass. Secy., W. F. Allen, 24 Park Place, New York city.
INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS.
Oct. 25 to 27. Annual meeting of American section at New York city. Secy., Richard L. Humphrey, City Hall, Philadelphia, Pa.
ROADMASTERS' ASSOCIATION OF AMERICA.
Nov. 13. Annual meeting at Los Angeles, Cal. Secy., J. B. Dickson, Sterling, Ill.

AMERICAN STREET RAILWAY ASSOCIATION.—The 19th annual meeting will be held at St. Louis, Mo., Oct. 16 to 19. The following papers are on the program: "Double-Truck Cars; How to Equip them to Obtain Maximum Efficiency under Varying Conditions;" "Comparisons of the Various Systems of Electrical Distribution for Street Railways;" "Consolidation of Street Railways, and its Effect upon the Public;" "The Store Room and Store Room Accounts;" "Painting, Repainting and Maintenance of Car Bodies." T. C. Penington, Secy.

CENTRAL RAILWAY CLUB.—The next regular meeting of the club will be held Sept. 14, at Buffalo, N. Y. Prof. Gaetano Lanza, of the Massachusetts Institute of Technology, will read a paper upon "Efficiency Tests of Locomotives." A special committee, consisting of J. A. Bradley, T. Sills and T. Rhodes, has prepared a report upon the "Rules of Interchange," as revised at the annual convention of the Master Car Builders' Association at Saratoga last June. The following reports by special committees, submitted at the May meeting, will be discussed: "Best form of Construction, and Methods of Ventilating, Heating and General Equipment of Roundhouses," W. H. Marshall, George W. West, C. H. Potts; "Standard Box Cars; Technical Details of Construction Along the Lines Recommended by the Committee on Typical Dimensions," L. T. Canfield, H. F. Ball.

Harry D. Vought, Secy.

NEW PUBLICATIONS.

LITERARY MAGAZINES.—The August "Nineteenth Century" contains a paper on "How to Breed Horses for War," in which the writer makes the suggestion that horses should be specially bred for war purposes. He says with truth that for modern cavalry purposes what is wanted is small tough beasts like the western broncbos, the Mexican mustangs, or the horses of the Arabs. These will endure far more than the heavy, well-fed horses picked up from farms or from city omnibus service. This is all very well so far as the regular army supply is concerned, but in the sudden emergencies of war it will still be necessary to buy horses when and where they can be found, regardless of quality. In the same magazine Prince Kropotkin writes on "The Small Industries of Great Britain." Notwithstanding the prevalent idea that the factory has wholly displaced the workshop, in modern production, he finds on investigation that fully half the industrial workers of Britain are employed in small workshops, and he contends that the current idea that the large scale producer must eventually drive his smaller rivals out of business is an economic fallacy.

In the August "Fortnightly" the story is told of how Russia, in 1896, made a secret proposal to the United States to "corner" the wheat market of the world. Each government was to purchase all wheat offered at $1 per bushel and sell at a figure enough larger to cover cost of interest and storage. In this way, Russia contended, the price of wheat would be maintained at a higher level, and farmers would receive more for their crops. The proposition was rejected by the United States, but is still cherished by Russia, which, according to this writer, still hopes to persuade the United States to agree to the project. In this connection it is of interest to note that the scheme of the Populist party a few years ago for government loans on grain has been actually tried in Russia. In 1893, when wheat fell to 50 cts. per bushel, the Russian government offered to loan money at 4% to farmers who desired to hold grain for higher prices, taking the grain as security. No less than $27,000,000 was so loaned, the price of grain was raised 10 to 20%, and the plan is still in force. Two other papers of special interest in the same magazine are a comparison of the naval armaments of the seven greatest sea powers, and an argument for British naval stations and ship and gun building plants in Australia and Canada by Admiral Colomb.

In the August "Contemporary Review," there is an able defence of the policy of "Municipal trading," or city ownership of public works, as it is termed in this country. Mr. Josiah Quincy reviews the course of the United States in China, and there is a discussion of hospital conditions in South Africa that reminds one very strongly of this country's experience at the conclusion of the Spanish war.

It will surprise many to learn that the cotton seed as a cereal is more nutritious than wheat, and that the total quantity of cotton seed produced in the United States is five-sevenths as large as the wheat crop. It is yet possible that the cotton seed crop will be found to have greater intrinsic value than the wheat crop, when methods for its utilization become better known. These and other interesting facts concerning the cotton seed are given in a paper in "The Forum," by Mr. Edwin L. Johnson. The same magazine has papers describing the methods in use at the census office, and urging the need for providing a system of inspection for the improvement of the consular service.

"The Tendency in Trade Unionism" is the title of an able paper in the September "International Monthly." Its author shows how rapidly organized labor is embracing socialism and outlines some of the fields in which labor organizations are working. The article should be read by every employer of organized labor who desires to know the direction in which his men are moving.

In the September "Century" Mr. John Burroughs concludes his account of the Harriman expedition to Alaska. There is also an account of the proposed great memorial column proposed to be erected at Detroit to commemorate the founding of the city 200 years ago. The design, prepared by Stanford White, is for a great Doric column, 24 ft. in diameter at the base and rising to a height of 220 ft. surmounted by a huge torch, from which a flame of natural gas will blaze by night. The design is a most artistic one and it is to be hoped that sufficient funds may yet be forthcoming to carry it out.

In "Harper's" for September is an excellent paper on submarine boats. It is written from the popular point of view, of course, but contains not a little technical information and brings the subject well up to date. No one can doubt that these new weapons are likely to play a most important part in future naval warfare.

The September "McClure's" contains the conclusion of Lieut. Gillmore's story of his captivity by the Filipinos, and an account of the construction of the new "Deutschland," of the Hamburg-American line, written in a popular vein.

Chinese affairs fill a large part of both the "Review of Reviews" and the "North American Review" this month. In the latter magazine the contributors to the discussion include Mr. John Foord, Secretary of the American Asiatic Association, who thinks that the real root of all the Chinese troubles is the corruption of Chinese officials, and the real problem before the civilized powers is how to put honest Chinamen in power in the Chinese empire. The "Review of Reviews" contains also an excellent biographical sketch of the late C. P. Huntington.

The September "Cosmopolitan" contains an illustrated article on the Pan-American Exposition, to be held at Buffalo next year. Some of the buildings are already approaching completion, and with the added attraction of near-by Niagara, it is probable that a large attendance will be secured. "The American Boss" is the title of the opening paper in the "Atlantic" and the article will repay study. The author, Mr. Francis C. Lowell, shows that the Boss is merely an evolution from American political conditions. Until we change these conditions the bosses will continue, and the best efforts of reform organizations to defeat them will only result in a change of bosses.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½x8 ins., 6x9 ins., and 9x12 ins.)

PNEUMATIC TOOLS.—The Q. & C. Co., 106 Liberty St., New York city. Paper; 9 x 6 ins.; pp. 51; illustrated.

This is a catalogue of pneumatic tools for chipping, riveting, drilling, etc.

STEAM PUMPS.—Dean Bros. Steam Pump Works, Indianapolis, Ind. Paper; 6 x 7 ins.; pp. 40; illustrated.

This is a catalogue of direct-acting duplex steam pumps manufactured by the above company.

FEED-WATER INJECTORS.—The Hayden & Derby Mfg. Co., 85 Liberty St., New York City. Paper; 6 x 9 ins.; pp. 44; illustrated.

The above company manufactures steam injectors of various types for feeding steam boilers.

MACHINE TOOLS.—Brown & Sharpe Mfg. Co., Providence, R. I. Paper; 4 x 6½ ins.; illustrated.

This pamphlet is being distributed at the Paris Exposition by the above company. It describes the shops and products of the Brown & Sharpe Co.

CORE OVENS.—The Millett Core Oven Co., Brightwood, Mass. Paper; 9 x 10½ ins.; illustrated.

The Millett core oven is provided with hinged shelves so arranged that when the shelf is pulled out the opening is closed by a door at the back of the shelf.

ELECTRICAL MACHINERY.—Fort Wayne Electric Works, Fort Wayne, Ind. Paper; 8½ x 11 ins.; pp. 12; illustrated.

This is a collection of half-tone cuts illustrating the machinery manufactured by the above company.

KEROSENE ENGINE.—The General Power Co., 100 William St., New York city. Paper; 4½ x 7 ins.; pp. 16; illustrated.

This pamphlet contains a very brief description of the Secor oil engine. An economy of 4-5 pint of kerosene per HP. hour is claimed.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Sept. 6.	Bridge, New York, N. Y.		Aug. 30
Sept. 6.	Altering building, Fort Greble, R. I.		Aug. 30
Sept. 6.	School house, Natchez, Miss.		Aug. 30
Sept. 6.	Asphalt blocks, etc., Brooklyn, N. Y.		Aug. 30
Sept. 6.	Bridge work, Rockville, Ill.		Aug. 30
Sept. 6.	County bridges, Sacramento, Cal.		Aug. 30
Sept. 6.	Water tower, Alliance, O.		Aug. 23
Sept. 6.	Electrical machinery, New London, Conn.		Aug. 23
Sept. 6.	Park work, New York, N. Y.		Aug. 30
Sept. 6.	Paving, Geneva, N. Y.		Aug. 30
	Advertised, Engineering News, Aug. 30.		
Sept. 6.	Block paving, Rushville, Ind.		Sept. 6
Sept. 6.	Pipe sewers, Chelsey, Ont.		Sept. 6
Sept. 7.	Altering schools, Chicago, Ill.		Sept. 6
Sept. 7.	Water-works, Wheaton, Minn.		Aug. 23
Sept. 7.	Jail building, Mineola (L. I.), N. Y.		Aug. 23
Sept. 7.	Temporary library building, Cleveland, O.		Aug. 23
Sept. 7.	School house, Seattle, Wash.		Aug. 23
Sept. 7.	Sewer, Cleveland, O.		Aug. 30
Sept. 7.	Bridges (5), Rockville, Ill.		Aug. 30
Sept. 8.	Building, New York, N. Y.		Aug. 23
Sept. 8.	River improvements, Sacramento, Cal.		Aug. 23
Sept. 8.	Sewers, Washington, D. C.		Aug. 23
	Advertised, Engineering News, Aug. 23.		
Sept. 8.	Pumping plant, New York, N. Y.		Aug. 16
Sept. 8.	Electrical supplies, New York, N. Y.		Aug. 30
Sept. 8.	Lumber for bridges, Oroville, Cal.		Aug. 30
Sept. 8.	Paving, etc., Youngstown, O.		Aug. 30
Sept. 8.	Levee work, Memphis, Tenn.		Sept. 6
Sept. 8.	School house, Celina, O.		Sept. 6
Sept. 8.	Sewers, Neenah, Wis.		Sept. 6
Sept. 10.	Improving street, Kenton, O.		Sept. 6
Sept. 10.	Street grading, St. Paul, Minn.		Sept. 6
Sept. 10.	Constructing road, Orofino, Idaho.		Sept. 6
Sept. 10.	Elecrtic plant, etc., Bracebridge, Ont.		Sept. 6
Sept. 10.	Library building, Falmouth, Mass.		Sept. 6
Sept. 10.	Heating plants, etc., Brooklyn, N. Y.		Sept. 6
Sept. 10.	Library building, Trenton, N. J.		Sept. 6
Sept. 10.	School house, Windsor, N. Dak.		Sept. 6
Sept. 10.	Pipe sewer, Little Falls, N. Y.		Sept. 6
Sept. 10.	Sewer, Seneca Falls, N. Y.		Sept. 6
Sept. 10.	Sewers, Pembroke, Ont.		Sept. 6
Sept. 10.	Macadam paving, East Orange, N.J.		Aug. 30
Sept. 10.	School house, New Auburn, Me.		Aug. 30
Sept. 10.	Bridge, Hailey, Idaho.		Aug. 30
Sept. 10.	Bridge, Moscow, Idaho.		Aug. 30
Sept. 10.	Water-works, Mondovi, Wis.		Aug. 30
Sept. 10.	Garbage crematory, Oil City, Pa.		Aug. 30
Sept. 10.	Water pipe, Holyoke, Mass.		Aug. 30
	Advertised, Eng. News, Aug. 30 and Sept. 6.		
Sept. 10.	Water-works, Smithfield, Va.		Aug. 30
	Advertised, Engineering News, Aug. 30.		
Sept. 10.	Plans sewage disposal, Wauwatosa, Wis.		Aug. 30
	Advertised, Engineering News, Aug. 30.		
Sept. 10.	Water mains, etc., Barberton, O.		Aug. 30
Sept. 10.	Wells, Solway, Minn.		Aug. 30
Sept. 10.	School house, Cleveland, O.		Aug. 16
Sept. 10.	Water bonds, etc., Oklahoma City, Okla.		Aug. 16
Sept. 10.	Cement, Mansfield, O.		Aug. 16
Sept. 10.	Sewer pipe, Mansfield, O.		Aug. 16
Sept. 10.	Garbage disposal plant, Mansfield, O.		Aug. 16
Sept. 10.	School buildings, San Carlos, Ariz.		Aug. 16
Sept. 10.	Post office building, Stockton, Cal.		Aug. 9
Sept. 10.	Plans for opera house, Jackson, Miss.		Aug. 23
Sept. 10.	Macadam road, Camden, N. J.		Aug. 23
	Advertised, Eng. News, Aug. 23 and 30.		
Sept. 10.	Barracks, Philadelphia, Pa.		Aug. 23
Sept. 10.	Sewers, Toledo, O.		Aug. 23
Sept. 10.	Repairing plumbing, Boston, Mass.		Aug. 23
Sept. 11.	Wiring system, Washington, D. C.		Aug. 23
Sept. 11.	Pumping engines (2), Detroit, Mich.		July 26
	Advertised, Engineering News, July 26.		
Sept. 11.	Electric plant, Iola, Kan		Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.		
Sept. 11.	Water-works, etc., Iola, Kan		Aug. 16
	Advertised, Eng. News, Aug 16 and 23.		
Sept. 11.	Naval supplies, Mare Island, Cal.		Aug. 30
Sept. 11.	Pumping machinery, Bridgeton, N. J.		Aug. 30
Sept. 11.	School house, Waltham, Mass.		Sept. 6
Sept. 11.	Railroad materials, League Island, Pa.		Sept. 6
Sept. 11.	Bridges, Champaign, Ill.		Sept. 6
Sept. 11.	Naval supplies, Washington, D. C.		Sept. 6
Sept. 11.	Coal handling apparatus, Washington, D.C.		Sept. 6
Sept. 12.	Impounding dam, Paonia, Colo.		Sept. 6
Sept. 12.	Sedimentation tanks, New Orleans, La.		Sept. 6
Sept. 12.	Pipe sewer, etc., Buffalo, N. Y.		Sept. 6
Sept. 12.	Paving, Harrison, N. J.		Sept. 6
Sept. 12.	Cement sidewalks, Addyston, O.		Sept. 6
Sept. 12.	Levee work, Greenville, Miss.		Sept. 6
Sept. 12.	Altering armory, Albany, N. Y.		Sept. 6
Sept. 12.	Steward's quarters, San Francisco, Cal.		Sept. 6
Sept. 12.	Heating, power house, etc., Farmington, Mo.		Sept. 6
Sept. 12.	Library building, Cheyenne, Wyo.		Aug. 30
Sept. 12.	Water-works, Luray, Va.		Aug. 30
	Advertised, Eng. News, Aug. 30 and Sept. 6.		
Sept. 12.	U. S. building, Beaumont, Tex.		Aug. 16
Sept. 12.	Dredging, Chicago, Ill.		July 19
Sept. 12.	Water-works, Hyattsville, Md.		Aug. 2
	Advertised, Eng. News, Aug. 2 to 16.		
Sept. 13.	Water-works, Smyrna, N. Y.		Sept. 6
	Advertised, Engineering News, Aug. 30.		
Sept. 13.	Improving street, Findlay, O.		Sept. 6
Sept. 13.	Bridge, Indianapolis, Ind.		Sept. 6
Sept. 13.	Jail building, Long Prairie, Minn.		Sept. 6
Sept. 13.	Fire house, Fort Crook, Neb.		Sept. 6
Sept. 14.	Electric plant, Christiansburg Va.		Sept. 6
	Advertised, Engineering News, Sept. 6.		
Sept. 14.	Water main (9,200 ft.), Lebanon, Pa.		Sept. 6
	Advertised, Engineering News, Sept. 6.		
Sept. 14.	Fire house, Fort Logan, H. Roots, Ark.		Sept. 6
Sept. 14.	Dredging, Savannah, Ga.		Aug. 16
	Advertised, Eng. News, Aug. 16, 23, Sept. 6.		
Sept. 14.	Accumulators, etc., New London, Conn.		Aug. 23
Sept. 15.	Court house, Wytheville, Va.		Aug. 23
Sept. 15.	Water bonds, Medicine Hat, N. W. Ter.		Aug. 23
Sept. 15.	Locks and dams, Pittsburg, Pa.		Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 13.		
Sept. 15.	Water, sewer and light bonds, Nelson, B.C.		Aug. 2
Sept. 15.	Electric plant, Spencerville, O.		Aug. 30
Sept. 15.	Brick building, Boston, Mass.		Aug. 30
Sept. 15.	Brick paving, Akron, O.		Aug. 30
Sept. 17.	Improving water-works, Yonkers, N.Y.		Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 13.		
Sept. 15.	Improving streets, Canton, O.		Aug. 30
Sept. 15.	Water pipe and lead, W. Springfield, Mass.		Sept. 6
	Advertised, Engineering News, Sept. 6.		
Sept. 15.	Water pipe, Augusta, Ga.		Sept. 6
Sept. 15.	Electric plant, Morrisburg, Ont.		Sept. 6
Sept. 15.	Boilers, New York, N. Y.		Sept. 6
Sept. 15.	Barrack building, Danville, Ill.		Sept. 6
Sept. 15.	Jail addition, Susanville, Cal.		Sept. 6
Sept. 17.	Water pipe, Washington, D. C.		Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 13.		
Sept. 17.	Sewer, Boston, Mass.		Aug. 30
	Advertised, Eng. News, Aug. 30 and Sept. 6.		
Sept. 17.	Library plans, San Antonio, Tex.		Aug. 2
Sept. 17.	Fog signal house, Buffalo, N. Y.		Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.		
Sept. 17.	Mushroom anchors, Willets Point, N. Y.		Aug. 16
	Advertised, Eng. News, Aug. 16, 23, Sept. 6, 13.		
Sept. 17.	Sewers, Boston, Mass.		Aug. 23
	Advertised, Eng. News, Aug. 23 and 30.		
Sept. 17.	Brick paving, Dayton, O.		Aug. 23
Sept. 17.	Dredging, Savannah, Ga.		Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 13.		
Sept. 17.	Intake pipe, Marquette, Mich.		Sept. 6
Sept. 17.	Iron bridge, Pittsfield, Mass.		Sept. 6
Sept. 17.	Vaults, etc., New York, N. Y.		Sept. 6
Sept. 17.	Filling, Toledo, O.		Sept. 6
Sept. 17.	Sewer, Rome, N. Y.		Sept. 6
Sept. 18.	Macadam paving, Oberlin, O.		Sept. 6
Sept. 18.	Court house, Xenia, O.		Sept. 6
Sept. 18.	Naval supplies, Puget Sound, Wash.		Sept. 6
Sept. 18.	Repairing heating plant, Elmira, N. Y.		Sept. 6
Sept. 18.	Pipe sewers, Galion, O.		Aug. 23
Sept. 18.	Ordnance storehouse, Willets Point, N. Y.		Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 13.		
Sept. 18.	Macadam paving, White Plains, N. Y.		Aug. 30
Sept. 18.	School house, Akron, O.		Aug. 30
Sept. 18.	Water-works, etc., Clarksdale, Miss.		Aug. 30
Sept. 18.	Electric plant, Fredericksburg, Va.		Aug. 30
Sept. 18.	Water and sewer bonds, Clarksdale, Miss.		Aug. 30
Sept. 19.	Sewer, Cleveland, O.		Aug. 30
Sept. 19.	U. S. building, Cheyenne, Wyo.		Aug. 16
Sept. 19.	School house, Swan, Ia.		Sept. 6
Sept. 19.	Engine house, New York, N. Y.		Sept. 6
Sept. 19.	Fire apparatus, etc., New York, N. Y.		Sept. 6
Sept. 20.	Electric plant, Natchitoches, La.		Sept. 6
	Advertised, Eng. News, Sept. 6 and 13.		
Sept. 20.	Water-works, etc., Natchitoches, La.		Sept. 6
	Advertised, Engineering News, Sept. 6.		
Sept. 20.	Feeder crib, Columbus, Ind.		Sept. 6
Sept. 20.	Pump, engine, etc., Fort Recovery, O.		Sept. 6
Sept. 20.	Well shaft, etc., Randolph, Neb.		Sept. 6
Sept. 20.	Water-works, Laurel, Md.		Sept. 6
	Advertised, Eng. News, Sept. 6 and 13.		
Sept. 20.	Steam launch, Bellevue, Pa.		Sept. 6
Sept. 20.	Sewer, Scranton, Pa.		Sept. 6
	Advertised, Eng. News, Sept. 6 and 13.		
No date.	Water mains, East Bangor, Pa.		Aug. 23
No date.	Deep well pump, Harlem, Ill.		Sept. 6
"	Building, Columbus, Ga.		Sept. 6

RAILWAYS.

BALTIMORE & OHIO.—Surveys are being made, according to reports, for a line to connect this road with the Cumberland Valley at Winchester, Va., where the latter company's terminus is located. Improvements are being contemplated at Boyds, Md., and at other stations in Montgomery county. J. M. Graham, Ch. Engr., Baltimore, Md.

BEAUMONT WHARF & TERMINAL CO.—The Railroad Commission of Texas has granted authority to this company to issue bonds to the amount of $401,000 on about nine miles of its proposed line in the city of Beaumont, Tex. The company has already about three miles of track in operation, and contemplates building a depot with extensive yards, shops, and terminals. W. N. Wilson, Gen. Mgr. J. F. Weed, Ch. Engr., Beaumont.

BERKLEY.—The Standard Yellow Pine Co., of Monks Corner, S. C., has leased this road, running from Monks Corner to Chicora, and will rebuild the road and construct about 10 miles additional track, connecting with the mills, which will run through timber lands. The construction will be done by the company, and will be started at once. A light rail will be used. Tramways will be built in the forest to the line. Daniel J. Hauer, Ch. Engr., Monks Corner, S. C.

BOSTON & MAINE.—A party of officials of this company have made inspections of the proposed improvements to the terminal facilities of the company's property at Troy, N. Y. The plans for the improvements will soon be formulated, and it is expected that the work will be carried out as speedily as possible. H. Bissell, Ch. Engr., Boston, Mass.

BRAINERD & NORTHERN MINNESOTA.—The contract for grading the extension of this line from Bemidji, Minn., has been let to Foley Bros., contractors, St. Paul, Minn., who are reported to have sub-let 10 miles to O'Malley & Hennessy, and four miles to B. F. Sullivan. The extension will be about 90 miles in length, of which 26 miles will be built this fall. It is said that the line will go by way of Buena Vista to a connection with the Halvorson Richard's logging road at Nebish, branching from Buena Vista and running east to Black Duck Lake and thence northerly. W. H. Gemmell, Gen. Mgr., Brainerd, Minn.

CALIFORNIA NORTHWESTERN.—The company is considering the proposition of extending its lines immediately into the redwood timber district of Mendocino Co., Cal., to cost about $2,000,000. Surveys are being made and will soon be completed. Three routes have been surveyed, but no selection has been made. A single track will be used as the expense of building will be large owing to the mountainous country. Several tunnels will be needed. F. K. Zook, Supt. and Ch. Engr., Tiburon, Cal.

CANADIAN NORTHERN.—Wm. Mackenzie, of this company, is reported as stating that the line from Port Arthur through Winnipeg to Prince Albert will be finished in 1901, and if the Northern Pacific will not sell its Portage line, a parallel one will be built. The construction is now completed through Minnesota toward Mine Centre and Fort Francis, and a branch line from the Minnesota boundary to Duluth will be built in the near future.

CANADIAN PACIFIC.—Plans for the improvements to the repair-shops and yards at Winnipeg, Man., have been completed and are now in the hands of the president. The work will cost about $50,000, and if the plans are approved it will be undertaken at once. Duncan MacPherson, Div. Engr., Montreal, Que.

CHESAPEAKE & NASHVILLE.—It is reported that a syndicate is being organized to purchase a controlling interest in this road, with a view of extending it from Gallatin, Tenn., to Nashville Cave, and to a connection with the Southern Ry. at Bloomfield, Tenn.

CHICAGO & NORTHWESTERN.—The new station and improvements to be made at Sioux City, Ia., will cost about $260,000, according to reports.——The right of way northeast of Wautoma, Wis., for the proposed line from Princeton & Marshfield, has been secured by the agents of this company. Surveys for the line have been made. E. C. Carter, Ch. Engr., Chicago, Ill.

CHICAGO, ROCK ISLAND & PACIFIC.—Surveys for a branch of this road toward El Paso, N. Mex., are being made, according to reports.

CHICAGO, ROCK ISLAND & PACIFIC.—Plans are being perfected for a cut-off between Eldon, Ia., and Trenton, Mo., and for the elimination of a number of curves whereby the line between Chicago, Ill., and Kansas City will be shortened by 35 miles. The work will be started early next spring, and is expected to be finished by midsummer. W. E. Dauchy, Ch. Engr., Chicago, Ill.

CHICAGO, WEATHERFORD & BRAZOS VALLEY.—This company has been granted authority by the Railroad Commission of Texas to issue bonds to the amount of about $15,000 per mile on the proposed line from Brownsport to Weatherford, about 36 miles. H. C. Warren, Pres. R. S. Weltzele, Ch. Engr., Weatherford, Tex.

COPPER RANGE.—C. W. Sanders, Ch. Engr., Houghton, Mich., writes us as follows regarding the construction work on the company's road: "We have at present under construction the Painesdale Branch. It is five miles in length, running from a point on our present main line, one mile south of Atlantic station, to the Champion Mine. In connection with the above we are also constructing spurs to the shafts of the Champion Mine and Tri-mountain Mine which will aggregate in length 2.7 miles. The surveys are nearly completed, and active construction work is now under way. Contract for grading, bridging, etc., has been let to C. J. Johnson, Minneapolis, Minn., and Houghton, Mich. There are at present about 200 men employed by the above contractor. A portion of this line is through very difficult country, maximum grades being 1.25% with compensation for curvature. The maximum curvature is 9°. There will be several high wooden trestles on the line, but at present no steel structures will be used. The company has rails on hand for the above work, but no decision regarding rolling stock necessary has yet been made."

DAKOTA, NEBRASKA & SOUTHERN.—John H. Bowman, Pres., 550 Bee Bldg., Omaha, Neb., informs us that the survey for this 600-mile line has been finished to the northern boundary of Nebraska. Negotiations for the construction capital are in progress, and contracts for the construction are expected to be let within 60 or 90 days. Geo. I. Oliver, Ch. Engr., 550 Bee Bldg., Omaha.

ELK CREEK.—Incorporated in West Virginia, with $20,000 capital stock, to build a railway. J. Bassel, J. D. Coplin and C. H. Towles, Clarksburg, W. Va., are incorporators.

EMPORIA & GULF.—Incorporated Aug. 18 in Texas, with $100,000 capital stock, to construct a road from Emporia, Tex., to Prescott, in Angelina county, about 25 miles distant. S. F. Carter, E. J. Mantooth and F. H. Ray are incorporators.

EUREKA & FRESHWATER.—This company has been incorporated in California with $200,000 capital stock to build and operate a railway, with spurs. C. A. Hooper, D. C. Henny, Alameda, and David Evans, Eureka, Cal., are incorporators.

GULF, COLORADO & SANTA FE.—The extension of the Montgomery Branch of this line is now being located from Cleveland east to a connection with the Gulf, Beaumont & Kansas City Ry., near Silsbee, Tex., 60 miles. It is expected that the construction will begin on this line as soon as the location is made. C. F. W. Felt, Ch. Engr., Galveston, Tex.

HOLLY RIVER & ADDISON.—Geo. A. Hechmer, Palmer, W. Va., informs us that the survey has been made for the line from Diana to Addison, 12.5 miles, and rights of way are practically all secured. Work will be started in the near future. Jno. T. McGraer, Pres.; F. Barber, Ch. Engr., Grafton, W. Va.

ILLINOIS.—N. C. Van Natta, of Canton, Ill., C. E. Sheriff and A. J. Thompson are reported as making surveys for a line from Canton.

KANSAS & SOUTHERN.—Elections will be held in several townships in Pottawatomie county, Kan., on Sept. 10, to vote on the proposition of issuing $75,000 in bonds to aid the construction of the extension of this road from Westmoreland to Wamego. The ultimate terminal of the road will be Emporia on the south and Lincoln on the north. G. H. Winchell, Supt., Westmoreland, Tex.

LAKE ERIE & DETROIT RIVER.—Owen McKay, Ch. Engr., Walkerville, Ont., informs us that the contracts for grading the extension of the company's line from Ridgetown to Dulton, about 25 miles, were let Aug. 28, in four sections, as follows: Section 1, Dewhirst & Boggs, South Woodslee, Ont.; section 2, Dart & Hamilton, Ridgetown, Ont.; section 3, James H. Gilhooly, Buxton, Ont.; section 4, James Wellwood, Merlin, Ont. The quantity of material measured in embankment will approximate about 185,000 cu. yds.

LOS ANGELES TERMINAL.—Reports from Los Angeles, Cal., state that ex-Senator Wm. A. Clark, of Helena, Mont., has purchased a half interest in this company, and that the line will be extended at once to San Bernardino, Cal., and Salt Lake City.

LOUISVILLE & NASHVILLE.—It is stated that surveyors have been over the proposed extension to be made from Livingston to Manchester, Ky. The object of the road will be to reach the coal fields of Clay county. The road will be about 30 miles in length and if built the construction will be started within six months. R. Montfort, Ch. Engr., Louisville, Ky.

MARQUETTE, MICH.—The council has passed an ordinance granting an unnamed railway company the right of way to Marquette on the Chocolay road. The proposed line is to connect with the Munising Ry. and the Minneapolis, St. Paul & Sault Ste. Marie Ry. at Manistique, Mich.

MICHIGAN.—Baird & Son, Peck Block, Walkerville, Mich., are reported as making surveys for a line to Hesperia. R. H. Opdyke, of Walkerville, is interested.

MISSISSIPPI.—The proposition of building a railway from West Point to Memphis, Tenn., via Houston and Oxford, is being considered, according to reports. Subscriptions for the enterprise are already being taken. T. C. Kimbrough, West Point, Miss., is interested.

MISSOURI, KANSAS & TEXAS.—The location of the San Antonio extension from San Marcos to San Antonio, Tex., about 50 miles, has been decided upon, and the engineer's office has been opened at San Marcos preparatory to receiving bids on the construction. The work is to be started immediately. A. A. Allen, Gen. Mgr.; J. W. Petheram, Ch. Engr., Dallas, Tex.

NEW JERSEY.—Richard Howell, of Wilmington, Del., is at the head of a company that is making a survey of a proposed road from Buttzville to Green's Pond, in Warren county, N. J., three miles. The company will build several large ice houses at Green's Pond, near Belvidere, N. J.

NORTHERN PACIFIC.—President Mellen has stated that the company does not propose to purchase any new equipment at present. The new equipment that is now being received was ordered some months ago. Mr. Mellen is quoted as follows: "We have made surveys of the proposed Lind-Ellensburg cut-off, but this work was done merely to gather data for future use. While the proposed line would shorten the distance from St. Paul to the coast about 90 miles there are many other questions involved which must be considered before undertaking the work of construction. Railways must figure results before taking up any given proposition. With the data as to grades and character of the country traversed in the proposed line from Lind to Ellensburg we are enabled to figure out the cost and its resultant. Will it pay? This is a matter entirely with the future, however, and this, and no other construction work, will be done in Washington or Idaho during the coming year."

ONTARIO, HUDSON BAY & WESTERN.—American capitalists are reported to have purchased a majority of the stock of this company. It is stated that the Clerque Syndicate is at the back of the deal. The purchasers will have the rights to build a road from Sault Ste. Marie to Hudson Bay.

OREGON R. R. & NAVIGATION CO.—It is reported that this company will purchase the property of the Ilwaco Ry. & Navigation Co. and will build from Frankfort to Ilwaco, Wash. A right of way for a road down the Washington shore of the Columbia River has been secured by the company.

OREGON SHORT LINE.—Preliminary arrangements toward extending the tracks at Kemmerer, Wyo., to tap extensive deposits south of that town, and for extensive improvements in that vicinity, are now under way. It is the intention of the company to have the extension built before the winter. Other improvements are contemplated at Diamondville and at Ham Fork. Wm. Ashton, Res. Engr., Salt Lake City, Utah.

PITTSBURG & WESTERN TERMINAL.—This company has been granted a charter to build and operate the proposed extension of the B. & O. R. R. on Neville Island. The plans of the new line are in the hands of Receiver T. M. King, of Pittsburg. Capital stock, $100,000. J. L. Kirk, Pres., Glenshaw, Pa.

RANDSBURG.—It is said to be the intention of this company to extend its line this fall to the section of country north and east of Ballarat, in the Panamint Mountains, in California. W. R. Woodard, Vice-Pres. and Gen. Mgr., Johannesburg, Cal.

ST. LOUIS & MEXICO.—The towns to be benefited by this line are reported to have offered the rights of way, station sites and bonuses of $1,000 per mile, in support of the proposed road, which will run from Ft. Smith, Ark., to Stafford Junction, where a connection will be made with the Southern Pacific and the railways of Mexico. It is proposed to build the road in sections, which are then to be operated, pending the completion of the entire line, the earnings to be applied to paying the interest on the bonds to be issued.

SEABOARD AIR LINE.—This company proposes to build an extension from Lyons to Dublin, Ga., about 40 miles.

SEATTLE & NORTHERN.—The company is considering the question of establishing a terminal at Marblemount, Wash., and extending the line to that place from Sauk. Engineers are now on the ground in the interest of the line.

SIOUX CITY, O'NEILL & WESTERN.—This company will extend its line from O'Neill, Neb., to Alliance, to connect with the C., B. & Q. R. R. Surveys are now being made.

SOUTHERN PACIFIC.—The line from Benson to Guaymas, Cal., is to be reconstructed at an early date, according to reports. The Huntington coal fields in Southern Senora are to be tapped by a line 73 miles in length. Plans for a system of docks at Guaymas to cost about $500,000 are said to have been prepared. W. Hood, Ch. Engr., San Francisco, Cal.

TEXAS & NEW ORLEANS.—The Railroad Commission of Texas has granted authority to the company to issue bonds to the amount of $20,000 per mile on 165 miles of extension from Rockland to Cedar, 25 miles of which is already completed from Cedar to Athens, and from Rockland to Nacogdoches, about 48 miles, the road is nearing completion. The entire extension is to be completed within four years. The quantities of excavation and embankment average about 29,000 sq. yds. per mile, and the timber trestling about 210 ft. per mile of cypress and creosoted pine. Two steel spans, 125 and 154 ft. in length will be needed. Extensive terminal improvements are contemplated at Dallas, Tex., in the way of depots, shops, yards, etc. J. T. Mahl, Ch. Engr., Houston, Tex.

WEST VIRGINIA.—Reports state a party of New York capitalists have recently purchased several thousand acres of land lying on the Allegheny Mountains, near the Virginia state line, which contains large deposits of iron ore, and will construct a railway connecting with the Chesapeake & Ohio Ry., near Tuckahoe.

STREET AND ELECTRIC RAILWAYS

GARDINER, ME.—The Gardiner Electric R. R. Co. will apply for a charter for a road to South Gardiner.

LEWISTON, ME.—The survey of the proposed electric road from this place to Augusta, to connect with the Lewiston, Brunswick & Bath road to Bath, has been started by John A. Jones, Lewiston. The results of the survey will largely depend on the construction of the line at an early date.

THOMASTON, ME.—The directors of the Rockland, Thomaston & Camden Electric R. R. have voted to extend their road to the state prison buildings, if a location is granted by the selectmen. Geo. E. Macomber, Pres., Augusta.

NEW HAMPTON, N. H.—The directors of the New Hampton Electric Light Co. have decided to extend its line from the power house of the Bristol Electric Light Co. to the Pemigewasset bridge, along the highway, instead of as originally contemplated.

HAVERHILL, MASS.—The aldermen have granted the Haverhill & New Hampshire Southern Electric R. R. locations to the New Hampshire line.

LYNN, MASS.—The Lynn & Boston R. R. Co. will, it is said, petition the aldermen for permission to continue the belt line over the Salem and Boston turnpike. The Salem aldermen will also be petitioned for permission to extend the line to the business section of the city. A. F. Breed, Pres.; E. C. Foster, Gen. Mgr.

MIDDLEBORO, MASS.—The selectmen have granted permission to the East Taunton St. Ry. to extend its tracks in Middleboro, from the present terminus to Center St.

MILFORD, MASS.—The selectmen granted a location to the Worcester & Middlesex Co. for an extension in this place, and to the Milford, Holliston & Framingham Co. for an extension from its present terminus at Cedar St. to the Honkinson line.

ORANGE, MASS.—The outlook is said to be favorable for the construction of the proposed new electric road from Orange to Miller's Falls. It is stated that the road can be constructed for about $210,000, and if the towns en route will subscribe for $25,000 of the stock the balance will probably be furnished by P. H. Hirsch, New York, who is the chief promoter.

PALMER, MASS.—The Palmer & Monson Electric R. R. Co. has been granted a franchise for its Springfield line in this town.

SOUTH FRAMINGHAM, MASS.—It is stated that an electric railway from this place to Medfield, via Sherborn, is being agitated.

MERIDEN, CONN.—The Meriden, Southington & Compounce Tramway Co. will soon ask permission to extend its lines to Cheshire and Waterbury. Other extensions are also proposed.

UPTON, MASS.—Subscriptions are being secured for stock for the Milford, Upton & Grafton St. Ry. Co., which proposes to build an electric road to cost about $125,000. L. B. Dyer, of Holliston, Mass., and the cotton syndicate are interested.

NEW HAVEN, CONN.—The United Gas Improvement Co., of Philadelphia and New York, it is understood, will apply next year for a charter to construct an extension to the trolley lines that now end at Woodmont, over the country road a mile north of the present Woodmont line to Savin Rock, thence to this city via either Davenport Ave. or Washington St. The proposed road would enter Savin Rock over the southern Milford turnpike and by a spur connect with the Rock proper north of the ball grounds, the main line continuing out West St. to Washington Ave., thence to this city.

AFTON, N. Y.—Local papers state that the Susquehanna Valley Electric Co. has been organized with $200,000 capital stock, to build a trolley line between Sidney and Franklin. H. B. Oakham, Chas. F. Lehman and Ed. H. Tucker, New York, are interested.

ALBION, N. Y.—It is stated that Capt. Lina Beecher has made a proposition to build a railway on one rail from Batavia to Oak Orchard, touching Medina and this place, providing the people along the route will meet the expenses of survey and right of way. The track, as proposed, will be elevated about 10 ft. high, and the motive power will be electricity.

ALEXANDRIA BAY, N. Y.—The citizens of Plessis have met J. T. Wells, Secy., St. Lawrence International Electric Co., with a view to having the line go by way of that town instead of direct to Redwood. The citizens have offered bonuses for the line, which will lengthen the proposed road about three miles.

BROADALBIN, N. Y.—A right of way is said to have been secured by the Amsterdam St. Ry. Co. for its proposed extension to Rockton, and Engineer Roberts, Albany, with Burdette Cleveland, Amsterdam, are now engaged in surveying the route.

NEW YORK, N. Y.—Plans for extensive alterations to the car barns of the Metropolitan St. Ry. Co. on Eighth Ave., between 49th and 50th Sts., have been filed. The improvements will cost about $35,000. A. V. Porter, Arch.; M. G. Starrett, Ch. Engr., 621 Broadway.

CAMDEN, N. J.—The American Universal Underground Electric Ry. Co. has been incorporated with $200,000 capital stock, to build a trolley system. W. Bartram, J. M. Deal and W. C. Alexander are interested.

TRENTON, N. J.—It is stated that a syndicate, composed of capitalists of this city, are securing franchises for an electric road from Harrisburg, Pa., to New York. It is the purpose of the projectors to have a trolley line connecting Washington and Boston, and this line, if built, will be a part of that scheme. Wilbur F. Sadler, Jr., is said to represent those interested.

HARRISBURG, PA.—The Shenandoah & Pottsville St. Ry. Co. was recently incorporated with $78,000 capital stock, to build a street electric railway. Powell Evans, C. E. Hanna and W. B. Pedrich, Philadelphia, are interested.

PITTSBURG, PA.—Local papers state that the Northern Light, Heat & Power Co. will make application for a franchise to establish a system of trolley lines in Allegheny. James F. Burke is attorney for the company.

WILKINSBURG, PA.—It is stated that the contract for constructing the tunnel under the tracks of the Pennsylvania R. R. in this place, for the Monongahela Traction Co., has been let to Clarence Simms & Co., Philadelphia, at about $50,000.

JACKSON, GA.—A syndicate, in which W. F. Smith is interested, has purchased the Thomas shoals, on the Ocmulgee River, and will utilize the power obtained from them to generate electricity to operate an electric road between Jackson, Flovilla and Indian Spring. The present road between Flovilla and Indian Spring will be made an electric line, and will be extended to this place, according to reports.

GREENVILLE, MISS.—At a recent meeting of the Greenville's business men a temporary organization of the Greenville & Leland Electric Air Line Co. was effected. The company proposes to build an electric road from this place to Leland, about ten miles, which will be used for the transportation of passengers and freight. J. B. Hebron, James Robertshaw and H. O. Hawkins are interested in the enterprise.

PARIS, KY.—The council has granted a franchise to a company of local capitalists, headed by H. A. Power, for the privilege of building and operating a street railway system in this city.

COSHOCTON, O.—The county commissioners have granted a franchise for the construction and operation of an electric railway from New Comerstown through West Lafayette to this place, on conditions that road be finished within a year.

LENOX, MICH.—It is proposed to build an electric road from this place to Sanilac Center, about 40 miles. Gil R. Lovejoy, Treas. Macomb county, Mount Clemens, Mich., is interested.

MUSKEGON, MICH.—Local papers state that the officers of the Grand Rapids, Grand Haven & Muskegon Electric Ry. have made a trip over the proposed route, which will be from Grand Rapids to Coopersville, thence to Munica, Fruitport and to Grand Haven. As soon as the location for the power house is decided by W. M. Churchill, Engr., the ground will be broken and the work will be pushed so as to have the road completed and ready for operation by next spring. J. D. Hawkes, Pres., Detroit.

PANA, ILL.—J. Smith Burturn, promoter of the Dewey City & Southern Electric Ry., has submitted a proposition to the Business Men's Association of this city, asking for a right of way six miles from the city, and bonds to the amount of $25,000, to aid the construction of the proposed road between Dewey City and Pana. The original intention of the company was to construct a road from Dewey City to Shelbyville.

MARINETTE, WIS.—Reports state that H. C. Higgins, Marinette, and Thomas Higgins expect soon to have the franchises for an electric line between Two Rivers and Manitowoc. They will build it as soon as they secure the rights of way.

MENASHA, WIS.—Surveys for the new interurban road between this city and Fond du Lac were started Aug. 23. The road is to run along the east shore of Lake Winnebago and will pass through Menasha, Harrison, High Cliff, Stockbridge, Brotherton, Calumet, Winnebago Park and Fond du Lac. A branch is to be built from Brotherton to Chilton over the Stony Brook road. The company is controlled by eastern capital and will be known as the East Shore Electric Ry. & Light Co.

MILWAUKEE, WIS.—The Wisconsin Traction, Light, Heat & Power Co. was incorporated Aug. 24, to bring together and extend certain properties in the Fox River Valley, in connection with the formation of an electric line from Chicago and Green Bay. Henry C. Payne and John I. Beggs are interested.

TWO RIVERS, WIS.—It is stated that the construction of the proposed interurban line between this city and Manitowoc will be undertaken so as to have the line ready for operation by next spring. Franchises have been applied for and will undoubtedly be granted. H. C. Higgins is one of the promoters.

DUBUQUE, IA.—The Union Electric Co. was recently incorporated as a consolidation of the several street car companies in the city. The capital stock is $1,000,000. Improvements will be made throughout the system, to cost about $100,000, and will include a new power house for the centralization of machinery and generation of all power and electricity needed, and for new equipment. Extensions are also contemplated. F. D. Stout, D. D. Myers and Peter Kiene are interested.

MINNEAPOLIS, MINN.—Local papers state that the Twin City Rapid Transit Co. is considering the proposition of constructing an electric line to Lake Minnetonka. The old motor line right of way, from a point near Hopkins to Excelsior, is to be utilized. Thomas Lowry, of the company, states that the construction of the line will eventually be undertaken, but as yet no definite progress has been made.

PRESTON, MINN.—The Ohio Trust Co. has submitted a proposition to the business men of this place to build a standard gage electric road from Decorah, Ia., to Chatfield, Minn., via Preston.

JUNCTION CITY, KAN.—A franchise has been granted by this city to Frank V. Crouch, Carrollton, Mo., for a street railway. A bonus of $10,0000 is asked, of which about $4,000 has already been raised.

OMAHA, NEB.—It is stated that the farmers on the route of the proposed electric railway from Elk City to Bennington have volunteered some financial assistance, together with the granting of rights of way, to aid the construction of the line.

PLATTE CITY, MO.—Right of way for the proposed electric road to Kansas City is being obtained, and it is thought that the line will be completed in a year. R. P. McGeehan, Parkville, Mo., is interested.

ST. LOUIS, MO.—The Madison Construction Co. has been incorporated with $25,000 capital stock. It is the intention of the company to build an electric railway to connect St. Louis with the more important towns across the river. A. H. Smith, Theo. F. Meyer and F. W. Watkins are interested.

EL PASO, TEX.—The El Paso & Juarez Traction Co. received from the Mexican Government on Aug. 22, a concession for the construction and operation of electric street car line in Juarez. The franchise for a line in El Paso is held by the company.

FORT WORTH, TEX.—The purchase of the controlling interest in the Forth Worth St. Ry. Co. and the City Ry. Co., Fort Worth, by an eastern syndicate, was made on Aug. 31. Several important changes and additions to the property will shortly be made. The negotiations for the transfer were completed by R. S. Vivian, Portland Block, Chicago, Ill.

COLORADO SPRINGS, COLO.—Local papers announce that W. S. Stratton and J. R. McKinnie have purchased a controlling interest in the Rapid Transit Co., of this city. Early construction of new lines is probable.

FLORENCE, COLO.—The council has passed an ordinance granting a franchise to the Florence St. Ry. Co. for additional concessions and territory in the city. Estimates have already been asked by the city engineer, according to reports, for a new steel bridge at Second St., which will be required in the construction of new lines. The construction will be started by Oct. 1.

SPOKANE, WASH.—Local papers state that E. M. Gilpin, Buffalo Hump, Idaho, is in this city arranging for the construction of an electric railway from Grangeville to Buffalo Hump, about 50 miles. It is expected to have the road constructed within eight months. Part of the power will be furnished by falls on Sheep Creek, 600 ft. high. The enterprise will represent an expenditure of about $250,000.

ELECTRIC LIGHT AND POWER.

BILLERICA, MASS.—We are informed that nothing will be done toward erecting the proposed plant for at least three months. E. B. Hasken, Selectman.

NEW LONDON, CONN.—Bids are asked until Sept. 21, for delivering three switchboards and instruments. Maj. S. S. Leach, U. S. Engr.

CHRISTIANSBURG, VA.—Bids are asked until Sept. 14 for erecting an electric light plant, as stated in our advertising columns. M. H. Tompkins, Mayor.

HENRIETTA, N. C.—F. C. Black, of Charlotte, will make surveys and prepare plans, etc., for developing power here, according to reports.

DALTON, GA.—We are informed that the city has purchased a gas plant and contemplate the erection of an electric plant as soon as all arrangements can be made.

NATCHITOCHES, LA.—Bids are asked until Sept. 20 for erecting a plant and water-works, as stated in our advertising columns. J. C. Trichel, Jr., Cy. Secy.; A. L'herisson, Mayor.

FAYETTEVILLE, TENN.—R. D. Warren writes us that he and several associates have purchased land on the Elk River about 5 miles east of here, with a view of having surveys and estimates for a plant made. When this is completed, if the power is sufficient, it will be developed. A report states that the dam and powerhouse are estimated to cost about $35,000.

FORT RECOVERY, O.—The following bids were received Aug. 15 for furnishing the materials and for constructing a plant, the bids for the water works being given under contract prices; news bids are wanted until Sept. 20 for the gas engine and pump. H. D. Hallett, Engr., Aurora, Ill.; W. W. Hatch & Son., Goshen, Ind., $4,728; W. G. Nagle & Co., Toledo, O., $4,728 (accepted); Fort Wayne Electric Works, Fort Wayne, Ind., $5,595.

FORT RECOVERY, O.—Bids are asked until Sept. 20 for erecting a power house equipped with one 500 gallon duplex pump, one 200 gallon power pump, one 15-HP. gas engine, one 80-HP. steam engine and two 80-HP. boilers, also on one 100-HP. engine and two 100-HP. boilers. Fred. Tegler, Clk.

SIDNEY, O.—Bids are asked until Sept. 22 for lighting this city for 10, 15 or 20 years, from August 1, 1901, requiring about 75 2,000-c. p. arc lights. Franklin Mumford, Chn. Light Com.

FRANKLIN, IND.—The Franklin Water, Light & Power Co., will, it is said, erect a new power house, to cost about $30,000. J. Hazelett, Mgr.

HUNTINGTON, IND.—Boyd & Co. are reported to have made a proposition to the council to erect a plant and water-works.

CRAWFORDSVILLE, IND.—The municipal plant was recently damaged by fire; reported loss about $40,000.

MONROE, IND.—We are informed that this town is not considering the question of erecting a plant and water works, as recently reported.

MILWAUKEE, WIS.—The Christiansen Engineering Co. will, it is said, erect a plant on Cambridge Ave. to cost about $9,000.

SHAWANO, WIS.—This town is reported to have voted favorably on the proposed issue of bonds for erecting a plant and water works.

KASSON, MINN.—It is stated that the electric plant here was recently destroyed by fire.

PORT ARTHUR, TEX.—The electric light plant was recently destroyed by fire, according to reports; loss about $12,500.

CHILOCCO, OKLA. TER.—Press reports state that the superintendent of the Indian schools here will employ an engineer to prepare plans, etc., for a plant to cost about $3,000.

BRACEBRIDGE, ONT.—Bids are asked until Sept. 10 for constructing a masonry dam, head canal, forebay, power house and tail race. J. E. Thompson, Mayor; C. H. Mitchell, Engr.

MORRISBURG, ONT.—Bids are asked until Sept. 15 for erecting the proposed municipal plant. George F. Bradford Reeve.

NEWMARKET, ONT.—The council is said to have asked the lieutenant-governor for permission to spend $10,000 in improving the municipal plant.

THESSALON, ONT.—The people of this town are said to have voted recently in favor of issuing bonds for erecting a plant.

NEW COMPANIES.—New Kensington Electric Light, Heat & Power Co., New Kensington, Pa., $75,000.

Truckee River General Electric Co., San Francisco, Cal.; $2,500,000; Allan Pollok, A. J. Hechtman, Ludwig Schwabacher.

Red Bluff Electric Light & Power Co., Red Bluff, Cal.; $125,000; H. A. Gesford, R. S. Masson, H. C. Dunnels.

Lemon Home Water, Power & Light Co., Willow, Cal.; $250,000; D. Brown, Oriand; Frank Spencer, Sacramento.

Masontown Electric Light, Heat & Power Co., Masontown, Pa.; $10,000; C. K. Hartley, W. G. Blackshere, both of Masontown.

Gibsonburg Electric Light Co., Gibsonburg, O.; $12,000; H. W. Mohroff, F. H. Westhoff, C. Sanders, A. Miller.

The Citizens' Electric Light & Power Co., Kenton, O.; $20,000; John Glenn, W. A. Ross, Theo. Miller, W. L. Sinly.

Lincoln Gas & Electric Co., Lincoln, O.; $1,500,000; H. F. Rose, J. C. Vanpiper, S. H. Burnham, I. M. Hammond.

Seaside Electric Light, Heat & Power Co., Borough of Queens, New York, N. Y.; $5,000; J. Ramsen, W. G. Wainwright, New York, N. Y.

Genesee Electric Co., Rochester, N. Y.; $50,000; P. H. Flynn, F. C. Cochon, Brooklyn; Wm. A. Boland, New York.

Colusa Light & Power Co., San Francisco, Cal.; $100,000; C. B. Williams and P. S. Coke, of Alameda; A. F. Jones, A. R. Kanaga.

BRIDGES.

GREAT BARRINGTON, MASS.—It is stated that a special election will be held Sept. 14 to vote on the question of a bridge over Green River.

PITTSFIELD, MASS.—Bids are asked by the city engineer until Sept. 17 for an iron bridge with a 53-ft. span and a 24-ft. roadway over the Housatonic River, at Linden St.

MT. VERNON, N. Y.—The following bids have been received by the board of highway commissioners for constructing four bridges between this city and Pelham: (1) being for the South Fulton Ave. bridge; (2) for the East Lincoln Ave. bridge; (3) for the East Third St. bridge; (4) for the East 6th St. bridge, and (5) total for the four bridges: Wrought Iron Bridge Co., 3 Union Square, West, New York, (1) $26,220, (2) $5,000, (3) $3,910, (4) $4,572; Frank R. Long Co., (1) $26,900, (2) $6,060, (3) $3,799, (4) $4,500; Berlin Iron Bridge Co., 99 Nassau St., New York, (5) $41,470; Variety Iron Works, 2 Hamilton St., Cleveland, O., (5) $42,635; Dean-Westbrook Bridge Co., 136 Liberty St., New York, (5) $43,751; J. E. Buddington, (1) $28,900.

NEW YORK, N. Y.—The board of estimate and apportionment has authorized the issue of $150,000 in bonds for widening the proposed bridge over the Harlem River at 145th St., from 65 to 100 ft.

SENECA FALLS, N. Y.—State Superintendent of Public Works Partridge, is said to have let the contract for erecting the bridge over the canal at Rumsey St. here to the American Bridge Co., 100 Broadway, New York, at $6,880.

WATERFORD, N. Y.—The trustees of this village are said to be considering the question of erecting a new bridge over the Hudson River at Broad St.

PATERSON, N. J.—The county commissioners are said to be considering the question of constructing a bridge from the foot of Van Houten St. to Totona Height, to be about 800 ft. long. Address County Engineer Whitmore.

CHESTER, PA.—The county commissioners have granted the Prospect St. Ry. Co. and the Delaware County Trolley Co. the privilege of constructing two bridges, one across Crum Creek and the other over Darby Creek. The structures will be on stone abutments, and will have steel draws. Plans and specifications for the bridges have been prepared by Harris & Damon, Engrs., Barby, and contracts will soon be let. Darby Creek is 480 ft. wide, and the width of Crum Creek is 100 ft.

McKEESPORT, PA.—Local papers state that the P., V. & C. Ry. will need two long steel bridges, one near Baldwin and the other at Hay's Station, near West Homestead.

PHILADELPHIA, PA.—The council is said to be taking steps toward the construction of a bridge over the Philadelphia & Reading tracks at the extension of 33d St. near Oxford, in the 29th and 32d Wards.

PITTSBURG, PA.—Press reports state that the Wheeling & Lake Erie R. R. will construct a 100-ft. plate-girder bridge, two 45-ft. deck plate bridges, and three 154-ft. Pratt truss bridges on its main line. Charles Blackwell, Ch. Engr., Cleveland, O. It is also stated that a steel bridge near Baldwin and another at Hays Station near West Homestead will be built by the Pittsburg, Virginia & Charleston R. R., a branch of the Pennsylvania R. R. W. H. Brown, Ch. Engr., Broad St. Station, Philadelphia.

MARSHALLTON, DEL.—The Levy Court is said to have let the contract for constructing a new steel bridge here to the Edge Moor Bridge Co., Wilmington, at $4,530.

FAIRMONT, W. VA.—T. L. Burchinal writes us that no definite steps have been taken toward erecting the proposed viaduct over Coal Run. The right of way has not yet been secured.

PULASKI, TENN.—The county court has let the contract for constructing the new bridge over Bradshaw Creek to the Ohio Bridge Co., The Spitzer, Toledo, O., at $1,090.

TOLEDO, O.—Reports state that the city will erect a steel viaduct to cost about $32,000 over St. Clair St., and also a stone retaining wall at the same place, to cost about $41,000.

INDIANAPOLIS, IND.—Bids are asked until Sept. 13 for the construction of a bridge over Dry Run on the Crawfordsville free gravel road. Harry B. Smith, Audr.

CHAMPAIGN, ILL.—M. S. Ketchum, Engr., writes us that the Indianapolis Bridge & Iron Works, 222 McCrea St., Indianapolis, Ind., submitted the lowest bid, Aug. 28, at $919 for constructing a 50 x 14-ft. bridge in Sadorus township.

CHAMPAIGN, ILL.—Bids are asked until Sept. 11 for the construction of a 40 x 14 ft. and a 50 x 14 ft. highway bridge on stone masonry. Specifications are at the office of Ira O. Baker, Engr., 702 W. University Ave., Champaign.

GRAND DETOUR, ILL.—The contract for erecting the proposed bridge over the Rock River at this place has been been let to the C. C. Jacobs Bridge & Iron Co., of Amboy, at $19,495, according to reports.

BALLARD, WASH.—The Seattle Electric Co. has prepared plans and asked the council for permission to construct a new trestle over Salmon Bay.

CANYON CITY, ORE.—Bids are asked by the county court until Sept. 6, for constructing a bridge 80 ft. long across the middle fork of the John Day River. R. R. McHaley, Clk.

SAN JOSE, CAL.—We are informed that the following bids were received August 20 for constructing a combination bridge on Hamline St., over the Guadalupe River; the bids are for the entire structure, including fill at the approaches: San Francisco Bridge Co., 42 Market St., San Francisco, $2,649; E. A. Hettinger (accepted), Palo Alto, $2,473; John Doyle, San Jose, $2,664; Kelley & McReynolds, San Jose, $3,200.

BUILDINGS.

NASHUA, N. H.—V. C. Gilman, Treas., writes us that the resolution authorizing the library trustees to secure plans for a new library building has been defeated.

FALMOUTH, MASS.—Bids are asked until Sept. 10 for erecting the new library building. John S. Bleakie, Chn.

WALTHAM, MASS.—Bids are asked until Sept. 11 for erecting a new high school building. Samuel Patch, Supt.

WORCESTER, MASS.—The board of trade is considering the question of erecting a building to cost about $500,000, according to reports.

FORT WETHERILL, R. I.—Bids are asked until Sept. 8 for erecting one barracks for 20 men and one double set of non-commissioned officers' quarters here. H. P. Young, Q. M., 209 Thames St., Newport, R. I.

BRIDGEPORT, CONN.—The contract for erecting the new Shelton school building, to cost about $73,000, is said to have been let to the H. M. Purdy Co., 400 Water St. H. A. Howe, Jr., Arch., 380 Main St.

ALBANY, N. Y.—Bids are asked by the state board of armory commissioners until Sept. 12 for alterations, etc., to the state armory building.

BROOKLYN, N. Y.—Bids are asked by the board of education, 59th St. and Park Ave., New York, until Sept. 10, for installing new heating and ventilating apparatus and electric plants in public schools Nos. 124 and 125, and for altering the plant in public school No. 56.

BUFFALO, N. Y.—Bids are asked until Sept. 25 for erecting the Ohio state building on the Pan-American Exposition Grounds. Charles L. Swain, Sec. Pan-American Exhibition; John Eiseman, Arch., 489 The Arcade, Cleveland, O.

ELMIRA, N. Y.—Bids are asked until Sept. 18 for constructing repairs to the heating plant in the Elmira Reformatory. Thomas Sturgis, Pres. Bd. Mgrs.

NEW YORK, N. Y.—Bids are asked until Sept. 22 for erecting a brick building, 54 x 39 ft., at the navy yard. M. T. Endicott, Ch. Bureau Yards and Docks, Navy Department, Washington, D. C.——Bids are asked by the fire department, 157 East 67th St., until Sept. 19 for erecting a fire engine house at 150th St. and Railroad Ave.

NEW YORK, N. Y.—Plans have been filed by George A. Groth, 123 Edgecombe Ave., for a 7-story brk flat house, 38 x 77 ft., at Lexington Ave. and 74th St., to cost about $63,000. Geo. F. Pelham, Arch., 503 Fifth Ave.; by Myer Hellman, 15 East 92d St., for a 7-story brick flat house, 100 x 95 ft., at Eighth Ave. and 150th St., to cost about $80,000. Hugo Kafka, Arch., 99 Nassau St.; by H. J. Wirth, 145 Delancey St., for two 7-story brk tenements, 38 x 74 ft., and 25 x 76 ft., at 157 to 161 Allen St., to cost about $50,000. Kurtzer & Rohl, Archs., 190 Bowery.

TRENTON, N. J.—Bids are asked until Sept. 10 for erecting the new public library building. F. W. Roebling, Pres. Bd. Trustees.

ERIE, PA.—The general contract for erecting the new schoolhouse is said to have been let to Gunnison Bros., 233 East 22d St., at $47,985. Charles E. Shenk, Chn.

PHILADELPHIA, PA.—Joseph M. Huston, Witherspoon Bldg., is preparing plans for a police and fire station house at 11th and Vine Sts.——It is stated that J. H. Cook, Arch. Bd. Education, will prepare plans for alterations to the Nichols public school building; large addition to the Baldwin school, alterations to school, 13th St. and Susquehanna Ave.; also two new stone structures costing about $75,000 each, to be built in the 27th and 33d Wards.

PHILADELPHIA, PA.—M. Bernstein, 245 Broadway, New York, N. Y., is said to have prepared plans for a 6-story brick flathouse at 348 and 350 East 15th St., for N. Silverson, to cost about $50,000.

WASHINGTON, D. C.—The Department of the Interior is said to have invited plans for enlarging the asylum for the insane for which work Congress has appropriated $1,000,000.——The following bids were received Aug. 27 by J. K. Taylor, Supv. Arch., Treasury Dept., for constructing the outbuildings at the bureau of engraving and printing: Wm. H. Crilly, 202 Dearborn St., Chicago, Ill., $94,302 and $94,302; 10 months. J. A. Reaugh & Son, Garfield Bldg., Cleveland, O., $83,611 and $83,611; 10 months. D. H. Hayes, 140 Dearborn St., Chicago, $95,717 and $94,317; 10 months. Joseph F. Hurdle, Washington, $76,935 and $75,900; 9 months. W. E. Spier, 1417 F St., N. W., Washington, $82,788 and $82,210; 10 months. J. H. Hobson, Washington, $80,980 and $80,980; 6 months. Hobbs & Parkinson, Washington, $92,198 and $91,000; 10 months.

WASHINGTON, D. C.—Bids are asked by the district commissioners until Sept. 29 for erecting a new workhouse.

RICHMOND, VA.—The contract for enlarging the buildings of the Virginia Hospital is said to have been let to Fritz Litterding at about $25,000.

COLUMBUS, GA.—Bids are wanted by President J. F. Flournoy for erecting a brick building, 50 x 80 ft. on the car barn lot.

GREENVILLE, GA.—Reports state the county commissioners are considering the question of erecting a new courthouse.

LA GRANGE, GA.—The county commissioners have called a special election for Oct. 3 to vote on the question of issuing $30,000 in bonds for erecting a new courthouse.

STATESBORO, GA.—It is stated that the Statesboro Warehouse Co. will erect a new warehouse shortly.

JACKSONVILLE, FLA.—This city is said to have offered $100,000 and a site to the state authorities to locate the state capitol here.

BIRMINGHAM, ALA.—The council has passed an ordinance providing for the sale of $150,000 in bonds for erecting a new city hall and jail building. Mayor Drenner is said to have had plans prepared.

SELMA, ALA.—Wilson & Edwards, 1416 Main St., Columbus, S. C., are said to have prepared plans for a new building, 85 x 110 ft., at Dallas and Laudesdale Sts., for the Baptist Church, to cost about $30,000.

NEW ORLEANS, LA.—The Louisville & Nashville R. R. is said to have decided to erect a new depot at the head of Canal St., to cost about $50,000. R. Montfort, Ch. Engr., Louisville, Ky.

NEW ORLEANS, LA.—The council is considering the question of erecting a new jail building, according to reports.——The building at 604 Canal St., occupied by the Fairbanks Scale Co., was destroyed by fire recently; loss, about $200,000. Keifer Bros'. factory adjoining, was damaged to the extent of $100,000, and the Morris building to the extent of $50,000.

AKRON, O.—The question of issuing $200,000 in bonds for rebuilding the city hall, which was recently blown up, at the November election, is being discussed.

BATESVILLE, O.—Bids are asked, according to reports, until Sept. 7 for erecting a new schoolhouse. E. W. Hart & Co., Archs., Columbus Bldg., Columbus, O.; W. J. Shively, Clk. Bd. Education.

CELINA, O.—Bids are asked, according to reports, until Sept. 8 for erecting a new schoolhouse for Butler township. John G. Kirk, Clk. Bd. Education.

CLEVELAND, O.—Bids are asked until Sept. 24 for fireproofing and plastering the Franklin high school building. Thomas H. Bell, School Director.——Bids are asked until Sept. 24 for erecting a fire station and telegraph headquarters on Hill St. H. H. Hyman, Dir. Fire Service.

LORAIN, O.—The council has decided to call a special election soon to vote on the question or issuing $50,000 in bonds for erecting a new city hall building, according to reports.

MARIETTA, O.—Press reports state that the contract for erecting a courthouse and jail, has been let to W. H. Ellis & Co., at $147,030. Samuel Hanaford, Arch., Hulbert Block, Cincinnati; W. A. Patterson, County Audr.

TOLEDO, O.—It is stated that Mr. Ayres will soon receive plans for the proposed new Tower Hotel building, to cost about $650,000.

XENIA, O.—Bids are asked, according to reports, by the courthouse building committee until Sept. 18 for erecting a new courthouse.

INDIANAPOLIS, IND.—It is stated that the Pennsylvania Lines West of Pittsburg will erect a new freight depot near Pennsylvania St., to cost about $60,000. L. F. Loree, Gen. Mgr., Penn. Ave. and 10th St., Pittsburg, Pa.

BENTON HARBOR, MICH.—H. A. Foeltzer, Mayor, writes us that he does not think that a new city hall will be built this year.

DETROIT, MICH.—R. H. McCormack writes us that no action has yet been taken in regard to the alterations to the city hall.

DETROIT, MICH.—Plans are wanted, according to reports, by the commissioners of parks and boulevards, until Oct. 15 for an aquarium and horticultural building in Belle Isle Park, to cost about $100,000. A. W. Blain, Pres.; M. P. Hurlburt, Secy., 9 Peninsular Bank Bldg.

CHICAGO, ILL.—We are informed that only preliminary sketches have yet been prepared for the proposed 4-story stone dormitory for Chicago University. Final plans will not be made for six or eight weeks. Dwight H. Perkins, Arch., 1107 Steinway Hall.

CHICAGO, ILL.—Bids are asked by the committee on buildings and grounds, board of education, 109 Randolph St., until Sept. 7 for making certain alterations and repairs to several school houses.——L. M. Mitchell, 145 La Salle St., is said to have prepared plans for a 3-story brick apartment house, 74 x 110 ft., at Bellevue Ave. and West Court in Lake View, for Jas. C. Cockburn, to cost about $50,000.

DANVILLE, ILL.—Bids are asked until Sept. 15 for erecting, including heating, ventilating and plumbing apparatus, one barrack building at the Danville branch of the National Home for D. V. S., W. C. Tuttle, Treas.; I. Clements, Governor.

WAUKEGAN, ILL.—J. J. Flanders, Masonic Bldg., Chicago, is said to be preparing plans for a new hotel building here for C. A. Murray, to cost about $75,000.

MARSHFIELD, WIS.—The council is reported to have let the contract for erecting the new city hall building, to cost about $18,000 to C. F. Dallman, of Antigo.

MILWAUKEE, WIS.—It is stated that the county commissioners have recommended the appropriation of $60,000 for a new building, etc., at the county hospital.

LAKE MILLS, IA.—F. D. Orff, 615 Lumber Exchange, Minneapolis, Minn., is said to be preparing plans for a two-story brick business block to be erected here.

SWAN, IA.—Bids are asked until Sept. 19 for erecting a new schoolhouse in sub-district No. 2, of Swan township. J. W. Proffitt, Pres.

LONG PRAIRIE, MINN.—Bids are asked by the board of county commissioners, until Sept. 13 for erecting a new jail and jailer's residence. Louis Anderson, Chn.; J. J. Reichert, County Audr.

FORT CROOK, NEB.—Bids are asked until Sept. 13 for erecting a fire apparatus house and wagon shed here. F. H. Hathaway, Chief Q. M.

SIOUX FALLS, S. DAK.—Joseph Schwartz, 2 Pettigrew Block is said to be preparing plans for a new hotel building for Corson Bros., to replace the Cataract, which was recently destroyed by fire, and to cost about $125,000.

WINDSOR, N. DAK.—Bids are asked, according to reports, until Sept. 10 for erecting a new schoolhouse in the Mt. Pleasant school district. N. B. Merry, Pres., Jamestown.

COLUMBIA, MO.—It has been decided to submit the question of issuing $100,000 in bonds for erecting a new courthouse to the people.

FORT LOGAN, H. ROOTS, ARK.—Bids are asked until Sept. 14 for erecting a fire apparatus house here. F. H. Hathaway, Chief Q. M.

GALVESTON, TEX.—Press reports state that the Knights of Pythias contemplate erecting a business building, to cost between $70,000 and $100,000.

SPOKANE, WASH.—John K. Dow, The Rookery, is said to have prepared plans for the new 7-story Spokane Club building, 60 x 142, for E. L. Clarke, to cost about $140,000.

SAN FRANCISCO, CAL.—Bids are asked until Sept. 12 for constructing a hospital steward's quarters at Angel Island. J. M. Marshall, Chief Q. M.

SUSANVILLE, CAL.—Bids are asked by the county clerk, until Sept. 15, for constructing an addition to the county jail.

ST. JOHN'S, NEWFOUNDLAND.—The contract for erecting the new courthouse here, to cost about $180,000, is said to have been let to S. M. Brookfield, of Halifax, N. S.

WATER-WORKS.

AUGUSTA, ME.—Bids will soon be asked by the superintendent of state buildings for the construction of works for the State House for about 4,000 ft. of pipe line and appurtenances for two springs.

STRONG, ME.—This place is said to have rescinded its late vote for water-works. Further efforts to secure works will be made. Address P. D. Stubbs and C. B. Richardson.

WOODSVILLE, N. H.—Nothing will be done towards building works until after the town meeting next March. Population, 1,700. Address A. E. Davis, Chn. Com., and A. H. Leighton.

HAYDENVILLE, MASS.—The question of a reservoir and other improvements to the works is being considered.

STONEHAM, MASS.—The question of laying a pipe line and securing a new water supply from the Metropolitan system is being considered. There would be 20¾ miles of 4 and 6-in. pipe, 157 hydrants, etc.; estimated cost, about $118,000. The present water supply is secured from a Wakefield company, which has offered to filter the water of the Quannapowitt Lake in Wakefield or to sell its pipe and hydrants in Stoneham to the city for $200,000.

WEST SPRINGFIELD, MASS.—A report on Aug. 29 stated that the water commissioners would at once ask for bids for furnishing the materials and for laying 16 and 18-in. water pipe and increasing the capacity of the Mittineague standpipe, and also for certain electrical apparatus and automatic valves. An election will probably soon be held to vote on the question of issuing $50,000 in bonds for the improvements; the contracts to be let immediately after if the vote is favorable.

WEST SPRINGFIELD, MASS.—Bids are asked by the board of water commissioners until Sept. 15, for furnishing about 1,000 tons of cast-iron water pipe, one ton of yarn and 15 tons of lead, as stated in our advertising columns.

JAMESTOWN, R. I.—Thos. G. Curr and B. E. Hull have made surveys for a new reservoir and pipe line for the Jamestown Light & Water Co.

NEW BRITAIN, CONN.—The water commissioners are reported to have secured land in Wolcott Mountain for the proposed reservoir of 200,000,000 gallons capacity. A dam 175 ft. long will be built. No work will be done this year, according to Commissioner Hall. T. H. McKenzie, Engr., Southington, Conn.

PLAINVILLE, CONN.—W. W. Cadwell, Cy. Engr., of New Britain, Conn., and P. J. Prior, of the board of selectmen, are reported as investigating the advisability of securing a water supply from Hamlins Pond for this place.

WATERTOWN, CONN.—The Watertown Water Co. is reported to be considering the question of building a new reservoir.

AMSTERDAM, N. Y.—Reports state that plans are being prepared for the two reservoirs near the headwaters of the Schoharie Creek, to cost about $800,000, for the Empire State Power Co., of this place. W. C. Johnson, Engr., Niagara Falls, N. Y.

BATH, N. Y.—The matter of filtered water is being considered. Some of the citizens are in favor of awarding a contract for a water supply to the Castleton Water-Works Co., which is also making efforts to build works in Rensselaer.

CANAJOHARIE, N. Y.—The question of securing a water supply from Sprite Creek, Fulton county, is being considered.

CARTHAGE, N. Y.—E. G. Shortt is reported as making estimates for operating the water-works with steam power. An election to vote on the question will soon be held.

FONDA, N. Y.—Morrell Vrooman, Fort Plain, N. Y., has made a report on the matter of securing a new water supply; estimated cost about $30,000.

FULTON, N. Y.—The Great Bear Spring Co., it is stated, proposes to develop the springs which the village recently voted not to buy. The water department will probably soon ask for bids for the pipe to be laid to Oswego Falls.

FULTONVILLE, N. Y.—The question of a better water supply or the purchase of a fire engine for fire protection is being considered, according to reports.

HORSEHEADS, N. Y.—The question of building works to cost $60,000 and a sewerage system to cost $30,000 is again being considered. An election to vote on the question of an electric plant will be held soon. The city trustees will probably engage an engineer to prepare plans.

KENMORE, N. Y.—The residents of this place have applied to the authorities at Tonawanda for a water supply. Address Messrs. Phelps, Carey and Bryant of the water board.

LESTERSHIRE, N. Y.—This place has voted to issue $16,000 in bonds for a new reservoir. F. M. Day, Town Clk.; W. H. Hill, Pres.; E. M. Kain, Water Comr.

LITTLE VALLEY, N. Y.—The question of improving the works will soon be voted upon, according to reports.

LOCKPORT, N. Y.—Nothing definite has yet been decided upon regarding a proposed new water supply for this city. S. F. Gooding, Cy. Engr. pro tem.

NEW HARTFORD, N. Y.—The trustees have awarded the contract to the New Hartford Water Co. for furnishing a water supply for five years, at $600 a year. There will be 23 hydrants.

PEEKSKILL, N. Y.—This place has voted against issuing $100,000 in bonds for an increased water supply. The proposition in revised form will probably be submitted at the earliest opportunity. W. J. Charlton, Supt.

SMYRNA, N. Y.—Bids are asked until Sept. 13 for furnishing the materials and for constructing works, as stated in our advertising columns last week; estimated cost $8,000. E. F. Musson, Engr., 12 Sheldon St., Norwich, N. Y.; C. E. Ferris, Pres.

SPENCER, N. Y.—The question of works estimated to cost about $10,000 is being considered.

TONAWANDA, N. Y.—Reports state that the city is considering favorably the application from Kenmore for a water supply. It is also proposed to improve the pipe lines and sewers along Delaware Ave., above the village line and in Kenmore. F. E. Chase, Chn. Engr. Water-Works.

WATERVLIET, N. Y.—The Watervliet Water Co. has been organized with a capital of $300,000 and a bond issue of $300,000 to take over the property of the West Troy Water Co. The company proposes to improve the works, pumping station, etc., on the Mohawk River, about six miles from here, and also to develop power for electrical purposes. Frank W. Marsh, Ebenezer Burr and J. C. Chamberlain, of Bridgeport, Conn., are interested. It is said that the water board will build its own works independent of the above company.

WEST SENECA, N. Y.—The South Park Water Co. has been incorporated with a capital of $50,000 to supply this place and vicinity with water. R. H. Reed, Pres., West Seneca; Frank F. Williams, Secy., Buffalo; John F. Burke, Treas., Buffalo, N. Y.

PASSAIC, N. J.—The Colonial Promotion Co. has been incorporated with a capital of $75,000 by Lewis Harting, Brooklyn, N. Y.; Fred. H. Ridgeway, of New York, and F. Handford Ayres, of Hackensack, N. J., to build works, etc.

SWEDESBORO, N. J.—The question of building works and an ice plant is reported as being considered.

VINELAND, N. J.—The council is reported to have let the contract for laying water mains to the proposed pumping station to J. Vaughn, at $5,206, and that for sinking six wells at $2,100.

ALLENTOWN, PA.—The question of issuing $300,000 in bonds for extending the works to secure a new water supply from Schantz's spring will probably be voted upon in November.

CHESWICK, PA.—The Cheswick Water Co. has been incorporated with a capital of $1,000 by H. E. Armstrong, Cheswick. W. T. Treadway, Coraopolis, Pa., and H. L. Castle, of Pittsburg, Pa.

HARRISBURG, PA.—Bids will probably soon be asked for furnishing a new pumping engine. Jacob V. Shauer, M. H. Craiglow and C. E. Murray compose the committee.

LEBANON, PA.—Bids are asked until Sept. 14 for furnishing the materials and for laying 9,200 ft. of 20-in. force mains, also valves, lead, etc., as stated in our advertising columns. E. H. Shroff, Water Supt.; J. D. Kerr, Secy. Comrs.

PITTSBURG, PA.—G. W. Wilson, Dir. Dept. Pub. Wks., W. F. Miller, Res. Filtration Engr., Pittsburg, and Allen Hazen, Consult. Engr., 220 Broadway, New York, are investigating filtration plants with a view to the city immediately building its proposed plant.

SHAMOKIN, PA.—A company has been formed with a capital of $100,000 to build works. The water will be brought from a reservoir about 16 miles distant.

STEELTON, PA.—The Barber Asphalt Paving Co., New York, has been awarded the contract at about $12,000 for improving the reservoir, as advertised in Engineering News.

WASHINGTON, PA.—Reports state that on account of the poor water supply furnished to Washington and vicinity a new company has been organized here for the purpose of providing water for the citizens of the four contiguous boroughs and the manufacturing plants of this city. The Citizens Water Co. has the rights for the old borough. The new concern will be chartered under four different companies—the East Washington Water Co., the West Washington Water Co., the North Washington Water Co., and the South Washington Water Co. Pres., J. H. Murdock; Secy., W. S. Campbell; other members are W. C. Baldwin, J. V. Clark and John Murray.

BALTIMORE, MD.—Bids are wanted at once by Jas. V. Dignowity, Mgr. Crain & Hersher, 606 Fidelity Bldg., for a pumping plant to remove the water from the 800-ft. shaft and levels at the Bare Hill copper mines, Baltimore county, according to reports.

LAUREL, MD.—Bids are asked until Sept. 20 for furnishing the materials and for constructing the works, as described in our advertising columns. Hill, Quick & Allen, Engrs., Equitable Bldg., Baltimore, Md.; J. C. Howell, Secy. Water Bd.; Edward Phelps, Mayor.

WASHINGTON, D. C.—The following bids were received by the Secretary of the Interior Aug. 30 for furnishing and installing a 1,000,000-gallon compound condensing pumping engine at the Government Hospital for the Insane: Crook, Horner & Co., Baltimore, $8,150; H. G. Morris, Philadelphia, $8,750; H. R. Worthington, New York, $10,940; Morton, Reed & Co., Baltimore, $8,700.

GREENSBORO, N. C.—The old works have been purchased and it is proposed to add a new steel tank, pump, boiler, filter to cost $10,000, etc. It is also proposed to build a sewerage system at a cost of $100,000. J. M. Bandy, Cy. Engr.

SOUTHERN PINES, N. C.—The following bids were received Aug. 30 for furnishing the materials and for constructong water-works, as advertised in Engineering News: (1) being for about 18,650 ft. of 4, 6 and 8-in. pipe, 4,000 ft. of 1-in. wrought-iron pipe, 6½ tons specials, 31 double nozzle hydrants, 20 4, 6, and 8-in. gate valves with boxes, 100 1-in. service valves, 9,000 lbs. pig lead, 1,100 lbs. hemp packing; (2) for laying and setting the above; (3) for the materials and erecting a wood pumping station, pump foundations, etc.; (4) for furnishing and erecting a 60,000-gallon cypress tank, with 62 ft. steel tower, foundation, etc.; (5) for furnishing and erecting on foundations furnished by the town a 12-HP. gasoline engine and a 7 x 8 triple pump with a capacity of 9,000 gallons an hour, piping, gasoline tank, etc.; (6) for furnishing and erecting on foundations furnished by the town a combined gasoline engine and pump, etc., with same capacity, etc., as in proposition 5: Glamorgan Pipe & Foundry Co., Lynchburg, Va., (1) $7,892. (2) $8,966; Moore & McCrary, Atlanta, Ga., (1) $8,307. (2) $9,819 accepted. (3) $350 accepted. (4) $3,300. (5) $1,250; Flint & Walling Mfg. Co., Kendallsville, Ind., (4) $3,655; Dimmick Pipe Co., Birmingham, Ala., (1) $9,463; Fairbanks, Morse & Co., Chicago, Ill., (4) $2,700, (5) $1,300, both accepted; Smith Courtney Co., Richmond, Va., (4) $3,150, (5) $1,340, (6) $1,398; R. W. Brown, Southern Pines, (4) $3,097; Moore & McCrary are to furnish the pipe and special castings manufactured by the U. S. Cast Iron Pipe & Foundry Co., and hydrants and valves made by R. D. Wood & Co., Philadelphia, Pa. Fairbanks, Morse & Co. are to furnish a tank of their own make and a Gould pump. Harry O. Parker, Town Clk.

AIKEN, S. C.—It is proposed to build a new reservoir, an artesian well, etc., according to reports.

ATLANTA, GA.—Bids are asked until Sept. 28 for furnishing and erecting a light-duty compound or triple-expansion pumping engine at Hemphill; capacity, 15,000,000 gallons. Park Woodward, Supt.; G. W. Harrison, Pres.

AUGUSTA, GA.—Bids will be asked about Sept. 15 for furnishing and laying 6 to 20-in. water mains to cost about $40,000. Nisbet Wingfield, Comr. Pub. Wks.——A local report states that it will require the expenditure of about $150,000 to make the improvements to the works being considered.

CLAYTON, ALA.—The following submitted bids Aug. 30 for sinking a 6-in. artesian well; E. P. Thomas, Mayor; W. B. Sharp, Dallas, Tex.; W. F. Hamilton, Ocola, Fla., and E. F. Joyce, St. Augustine, Fla.

NATCHITOCHES, LA.—Bids are asked until Sept. 20 for furnishing the materials and for constructing works and an electric plant, as stated in our advertising columns. J. C. Trichel, Jr., Cy. Clk.; Owen Ford, Consult. Engr., 710 Security Bldg., St. Louis, Mo.

VICKSBURG, MISS.—C. R. McFarland has offered to build works to cost about $150,000. Address Mayor Trowbridge.

DICKSON, TENN.—The council is reported as considering a proposition to grant a franchise to a Nashville company to build works.

DYERSBURG, TENN.—The city officials are desirous of granting a franchise for works and an electric plant, plans for which have been prepared. There will be wanted about 60 hydrants, arc and incandescent lights, etc. Pop., 5,000. W. A. Fawlkes, Mayor.

LANCASTER, KY.—Moritz-Barwick Construction Co., Stamford, Ky., is planning works for this place. The question is being considered of securing a water supply from deep wells or artesian wells in place of a small muddy river which is about four miles away. Information, estimates of cost, etc., for securing a sufficient water supply this way are wanted. E. P. Moritz, Secy. and Treas., Stamford, Ky.

CINCINNATI, O.—The portion of the tunnel extension and shafts, for which bids are asked until Oct. 2, as stated in our advertising columns, will cost about $662,493. This section of the tunnel will be about 15,150 ft. long. The first portion is now under contract with W. J. Gawn & Co., of Cleveland, O., at about $330,000. C. G. Roth, Clk. Trustees Water-Works.

DAYTON, O.—The directors of the county infirmary and the county commissioners are reported as considering the question of improving the quality of the water at the infirmary.

FORT RECOVERY, O.—Bids are asked until Sept. 20 for furnishing and installing a steam pumping engine, a power pump and steam engine for electric plant and boilers and building for the proposed works. The bids for these pieces and for the entire work and electric plant received Aug. 15 are published under Contract Prices. H. D. Hallett, Engr., Aurora, Ill.; Fred. Tegler, Village Clk.

GENEVA, O.—This place has voted to issue $75,000 in bonds for works. The report in our issue of Aug. 23 under Ashtabula should have been credited to Geneva. J. B. Strawn, Engr., Salem, O.; D. G. Palmer, Mayor.

MONROEVILLE, O.—Plans and specifications for the proposed works are not yet completed. W. G. McKibben, Engr., Van Wert, O.; address D. C. Purman, Bd. Trustees.

PIQUA, O.—The trustees are not yet ready to ask for bids for extending the works and securing a new water supply from wells. W. B. Mitchell, Secy.

PAINESVILLE, O.—Reports state that the state board of health has disapproved the plans proposed by the water-works trustees for improvements to the works, including a filtration plant. The state board has recommended that the trustees employ an engineer to prepare plans for a complete filtration plant.

TOLEDO, O.—The board of education has arranged to put in water in the school buildings.

ZANESVILLE, O.—The council has passed an ordinance authorizing the issuance of $62,500 in bonds for a mechanical filtration plant, according to plans already prepared. C. N. Bainter, Cy. Clk.

BLUFFTON, IND.—Bids are reported to have been asked until Sept. 5 for a new pumping station.

COLUMBUS, IND.—Bids are asked until Sept. 20 for a feeder crib for the works; bond, $7,000. A filter with a capacity of 7,200 cu. ft. will be wanted. Jas. Cockrane, Cy. Clk.

FRANKLIN, IND.—Reports state that the Franklin Water, Light & Power Co. will build a new power house and pumping station, to cost about $30,000.

HAMMOND, IND.—Bids are asked until Sept. 25 for furnishing and laying a main in the Calumet River to replace the main now connecting with the 16-in. pipe in Hopman St. P. J. Lyons, Cy. Engr.

JASPER, IND.—Reports state that the pumping station with other buildings owned by the Jasper Veneer & Panel Co. have been destroyed by fire at a loss of about $20,000.

DETROIT, MICH.—The water board on Aug. 23 received but two bids for furnishing 7,000 tons of 34 and 42-in. cast-iron water pipe. The bids were rejected because it would be impossible to lay any of the pipe this year.

MARQUETTE, MICH.—Bids are asked until Sept. 17 for laying an intake pipe for the pumping station, including the building of a submerged crib, etc. John Krey, Consult. Engr.; J. P. Kern, Secy. Water Comrs.

PONTIAC, MICH.—Reports state that the board of works has let the contract to the Laidlaw-Dunn-Gordon Co., Cincinnati, O., for the lease of an air compressor and the apparatus for an air lift at the rate of $200 a month, the amount to be applied to the final purchase by the city of the plant. Two 8-in. wells about 200 ft. deep will be sunk. The city recently voted against issuing $50,000 in bonds for improving the works.

ST. CHARLES, MICH.—John Tefft has been engaged to prepare estimates for works. E. V. Parsons, J. T. Phillips and A. E. Holt compose the committee.

SOUTH HAVEN, MICH.—R. C. Houston & Co., 100 Washington St., Chicago, are reported to have been awarded the contract for the intake crib at $13,590. A. Ryall, Cy. Clk.

HARLEM, ILL.—Bids are asked by John Kopplemeyer, Village Clk., for furnishing a deep well pump.

VIRDEN, ILL.—The question of building works in conjunction with Girard, four miles from here, is being considered.

FORT ATKINSON, WIS.—The question of works is being considered.

MONDOVI, WIS.—An election will be held Sept. 8 to vote on the question of issuing $18,000 in bonds for works. The question of works and an electric plant for Plymouth, Wis., is also being considered.

SHAWANO, WIS.—This place is reported to have voted to issue bonds for works and an electric plant.

WHITEHALL, WIS.—Bids were received Sept. 1 for extending the mains for five blocks, removing the pumping station, abandoning the old steam plant and adopting the water power plant. E. C. Getts, Cy. Clk.

BURLINGTON, IA.—The Burlington Water Co. has asked the council to permit it to make improvements to its works at once. G. D. Rand, Pres.

GREENE, IA.—Reports state that C. H. Ade, of Waterloo, Wis., has been awarded the contract at about $10,000 for building new works.

OSKALOOSA, IA.—The Oskaloosa Water Co. has been incorporated by J. Gamble and W. Bowen, of this place, with a capital of $450,000.

PIERSON, IA.—The council has not yet been able to dispose of the town warrants, the proceeds of which are to be used for building the works, to cost $5,000, the contract for which was let recently to the U. S. Supply Co.

ANOKA, MINN.—The following bids were received Aug. 21 for a tank and water works: W. D. Lovell, Des Moines, Ia., $4,710; Des Moines Bridge & Iron Co., Des Moines, Ia., $4,950; Fairbanks, Morse & Co., St. Paul, $5,100.

BLOOMFIELD, NEB.—Bids are asked until Sept. 26 for furnishing the materials and for constructing works to consist of a steel standpipe, a brick well, a duplex horizontal steam pump of 1,500,000 gallons, 4, 6 and 8-in. pipe, hydrants, valves, etc. A. C. Koenig, Engr., Grand Island; W. D. Frank, Cy. Clk.

OMAHA, NEB.—The Omaha Water Co. has been directed to file with the city clerk a plan of its works and mains between the pumping plant at Florence and this city, and also within the city. This is the first step toward the municipal ownership of the works. Andrew Rosewater, Cy. Engr.

RANDOLPH, NEB.—Bids are asked until Sept. 20 for sinking a shaft 8 ft. square by 90 ft. deep for an open well. Plans and specifications are being prepared for a pumping station with a double-acting triplex power pump, a centrifugal pump and a gasoline engine. Bids for the latter will soon be wanted. Arnold C. Koenig, Engr., Grand Island, Neb.; H. S. Fisher, Clk.

BOWLING GREEN, MO.—W. F. Mayhill, J. D. Hostetter and J. E. Thompson are reported to have been granted a franchise to build and operate works. Construction will be begun at once.

ST. LOUIS, MO.—G. E. M. Pratt, promoter of the Meramec Springs water scheme, 703 Chestnut St., St. Louis, has formally presented to R. E. McMath, Pres. Bd. Pub. Improvements, the proposition to furnish a water supply to this city. No action will be taken before Sept. 15. To insure a water supply by May, 1903, the proposition must be accepted by Oct. 25. For further information see our issue of last week.——The two basins of the Compton Hill reservoir, each measuring 350 × 400 ft. at the bottom, will be cleaned for the first time since the reservoir was built in 1871. There is said to be about 4 ft. of mud at the bottom. S. R. Russell, Principal Asst. Engr.

MENA, ARK.—This city is arranging to put in works, either by city ownership or by granting a franchise. Pop., 4,500. Address John H. Hamilton and R. B. Robinson.

DALLAS, TEX.—The city proposes to issue $100,000 in bonds for improving the works. The residents of East Dallas are anxious that a part of this or another appropriation be used in extending the mains to that place.

DENTON, TEX.—The question of the municipal ownership of the works after the expiration of the franchise is being considered. Address Mayor Poe.

GUTHRIE, OKLA. TER.—Surveys for a new reservoir are being made. B. F. Berkey, Mayor.

ARDMORE, IND. TER.—The question of securing a water supply for Cold Springs, 12 miles from here, is being considered. Address Mayor Gardner.

LA JUNTA, COLO.—F. T. Lewis is reported as preparing plans for a new headgate for the Oxford Farmers' Ditch, to cost $7,000.

PAONIA, COLO.—Bids are asked until Sept. 12 for constructing an impounding dam for Dry Mountain Reservoir on Dry Creek, seven miles above here, for the Minnesota Canal Supply Ditch & Reservoir Co. F. E. Lamberton, Secy., Paonia.

SPOKANE, WASH.—Local papers state that the question of issuing $250,000 in bonds for inproving the works will likely be voted upon this fall. The work will include a reservoir. Address City Engineer Wells, Mayor Comstock or President Weymouth, of the board of public works.

CORONA, CAL.—H. C. Foster, M. W. Findley and W. C. Barth are reported as interested in company being formed to increase the water supply by sinking wells, etc., work on which will probably soon be begun.

LOS ANGELES, CAL.—The Laguna Land & Water Co. has been incorporated with a capital of $160,000 by E. G. Greening, Alex. Mills and William W. Stephens.——The question of building a 10-in. pipe line to furnish water to Westlake and Central Park is being considered.——Capt. S. H. Finley is reported as making surveys for a storage reservoir to cover 15 acres on the property of Madame Modjeska, at Arden, Orange county.

SAN DIEGO, CAL.—The Southern California Mountain Water Co. has decided to extend its mains, and has also submitted a proposition to the council to supply the city with water from Morena.

OGDEN, UTAH.—The council has only ordered the preparation of plans and specifications for new works. Nothing definite will likely be done toward construction for a long time. A. F. Parker, Cy. Engr.

CHATHAM, N. B., CAN.—Freeman C. Coffin, 53 State St., Boston, Mass., is reported to have been engaged to prepare plans for works to supply 600,000 gallons, a sewerage system and an electric plant.

SACRAMENTO, CAL.—Experiments with driven wells in two or three localities for the proposed new water supply have been made by the committee, but no conclusions have as yet been reached. L. Tozer, Chn.——The matter of a water supply for Oak Park is also being considered.

SALT LAKE CITY, UTAH.—Plans for works and a sewerage system for the Fort Hall Indian School are being prepared by the Indian Commissioner at Washington.

GENESEE, IDAHO.—The question of building the proposed works, plans for which were prepared last year by Ernest McCullough, of Lewiston, Idaho, will probably be considered this fall. Address J. L. Conant, Jr., Genesee.

WESTON, ONT.—The question of building works is being considered, according to reports.

SEWERAGE.

PORTLAND, ME.—The council is said to be considering the question of constructing a sewer in the North Side, to cost about $20,000. Reports state that the city will build a new sewer in Exchange St.

PITTSFIELD, MASS.—H. S. Russell, Mayor, writes us that the city engineer is preparing plans for sewage disposal. It is probable that the work will be done by the city, though some portions may be contracted for.

SALEM, MASS.—It is stated that a town meeting will be called to vote on the question of building a system to cost about $300,000.

NAUGATUCK, CONN.—Geo. C. Ham, Cy. Engr., is said to have estimated the cost of building the proposed sewer in Rubber Ave. at $1,200.

SOUTH NORWALK, CONN.—Plans and specifications for the new trunk sewer in Whistleville will, it is said, soon be on file at the office of the street commissioners.

BROOKLYN, N. Y.—The following bids were received by Sewer Commissioner Kane, 21 Park Row, New York, for sewer work in this borough: for constructing a sewer in Sullivan St.: John J. Maloney, $2,756; James H. Holmes & Co., $3,986; John J. Creem, $3,089; for constructing a sewer in 86th St.: John J. Creem, $6,469; John J. Maloney, $6,049; James Jennings, $5,705; James H. Holmes & Co., $5,482; for constructing a sewer in Nostrand Ave.: John J. Creem, $10,993; Newman & Co., $10,630; James H. Holmes & Co., $10,725; John J. Maloney, $11,472.

BUFFALO, N. Y.—Bids are asked by the board of public works until Sept. 12 for constructing an 18 and 15-in. pipe sewer in Delevan Ave., and for paving Ryan St. R. G. Parsons, Secy. Bd.

LITTLE FALLS, N. Y.—Bids are asked utntil Sept 10 for constructing a pipe sewer in West Monroe St. H. W. Warren, Cy. Clk.

ROME, N. Y.—Bids are asked until Sept. 17 for constructing a storm sewer in the alley west of Washington St. F. A. Coleman, Cy. Engr.

SENECA FALLS, N. Y.—Bids are asked by the sewer committee until Sept. 10 for constructing a sewer in Porter St. Edw. L. Guion, Village Clk.

PATERSON, N. J.—The board of aldermen has decided to construct 550 ft. of 12-in. pipe sewer in Sussex St., 375 ft. in East 29th St., 450 ft. in River St., and 375 ft. in North Tenth St. John T. Brett, Street Comr.

ALLENTOWN, PA.—The council is said to be considering the question of constructing a sewer in Hamilton St.

ALTOONA, PA.—Reports state that the council has recommended the building of sewers in Third and Fifth Alleys, 15th St. and Second, Fourth and Sixth Aves.

BEAVER, PA.—The council is considering the question of extending the system, according to reports.

COATESVILLE, PA.—The following bids were received Aug. 27 by H. J. Beanson, Chn. Sanitary Comn., for constructing about 4,500 ft. of sewers, as advertised in Engineering News: Hannen & Quinn, Fidelity Bldg., Philadelphia, $15,115; R. A. Malone, Lancaster, $8,710 (accepted); P. F. Hawman, Reading, $11,172.

FRANKLIN, PA.—Reports state that the council has directed the city engineer to prepare plans for a sewer in the Third Ward.

SCRANTON, PA.—Bids are asked until Sept. 20 for constructing the 19th district main sewer, as stated in our advertising columns. M. T. Lavelle, Cy. Clk.

HAGERSTOWN, MD.—As soon as the electric plant is completed the council will consider the question of building a system, according to reports.

GREENSBORO, N. C.—J. M. Bandy, Cy. Engr., writes us that the city will spend about $100,000 on new sewers. No contracts have yet been let, but the matter is being gotten into shape as rapidly as possible.

UNION, S. C.—The people of this city are said to have recently voted at a special election to issue $35,000 in bonds for constructing a system.

NEW ORLEANS, LA.—Bids are asked until Sept. 12 for furnishing the materials and for constructing sedimentation tanks, etc., containing about 130,000 ft., B. M., of lumber. F. S. Shields, Secy. Sewerage and Water Bd.

OXFORD, MISS.—The Mayor writes us that this city will construct a system this fall though no definite steps have yet been taken.

CANAL DOVER, O.—Bids are asked by the Mayor until Sept. 24 for constructing a sewer in sanitary district No. 1.

COLUMBUS, O.—It is stated that City Engineer Griggs has recommended the construction of sewers in the North Side to cost about $98,000.

EAST LIVERPOOL, O.—This city will sell Oct. 1, $10,000 in bonds for constructing new sewers. J. N. Hanley, Cy. Clk.

LAKEWOOD, O.—The following contracts have been let for the sewerage system and the system of sewage disposal, the bids for which were given under Contract Prices in our last issue: Sections 1 and 2, Ford P. Beers; section 3, Wm. Lehman; disposal plant, Clements Bros. Construction Co.; long siphon, Philips & Bixel; pipe, Kelly Island Lime & Transport Co. Snow & Barbour, Consult. Engrs., Columbus, O., and Boston, Mass.; R. J. Wood, Hamlet, Engr.

NILES, O.—The following bids are said to have been received by the board of sewer commissioners for constructing the Chestnut, Mill and Butler Sts. and Park Ave sewers: McGlashen & McCracken, Warren, $6,154; Jos. A. Geraldine, Girard, $6,720; V. Mango, Niles, $6,819; Jonathan & F. L. Head, Niles, $6,962; Vetter & Heasley, Youngstown, $7,482; Wm. F. Townsend, Cleveland, $7,535; C. McCracken & Co., Cleveland, $7,642.

ZANESVILLE, O.—Bids are asked until Sept. 22 for constructing two 3 ft. brick sewers. C. N. Bainter, Cy. Clk.

SAULT STE. MARIE, MICH.—The council has passed an ordinance providing for the construction of a 9-in. pipe sewer in Peck St. H. A. Harrison, Clk.; P. C. Kelliher, Mayor.

CHICAGO, ILL.—The following bids are said to have been received for completing the 39th St. intercepting sewer: John P. Agnew, 100 Washington St., $637,200; Gahan & Byrne, 79 Dearborn St., $698,652; Nash Bros., 84 La Salle St., $728,946; Nash & Dowdle, 159 La Salle St., $777,600; Metropolitan Contracting Co., $796,500; Griffiths & McDermott, 214 Clark St., $835,650; Joseph J. Duffy & Co., 1008 Chamber of Commerce, $853,200.

HUDSON, WIS.—The council has had plans prepared and will advertise for bids at once for constructing a system, according to reports.

MANITOWOC, WIS.—The contract for certain sewer work in this city is said to have been let to Walter Bahr at $2,926.

NEENAH, WIS.—Bids are asked until Sept. 8 for constructing about 763 ft. of 10 and 15-in. sewers in Sherry and Ann Sts., average cut about 8 ft. Geo. L. Tourneux, Cy. Clk.; L. C. Hjorth, Cy. Engr.

WAUPACA, WIS.—Press reports state that the council has had plans prepared for a new system.

ST. JOSEPH, MO.—The council has passed an ordinance providing for the extension of the Blacksnake sewer. J. F. Johnson, Comptroller.

OAKLAND, CAL.—The council has passed an ordinance providing for the construction of a concrete culvert where Adams Creek crosses High St. in Brooklyn township.

POMONA, CAL.—We are informed that the following bids were received August 23 for about 37,200 ft. of 12-in. and 3,200 ft. of 10-in. pipe sewers: Los Angeles Sewer Pipe Association, Los Angeles, 10-in. pipe, 24c. per ft., 12-in. pipe, 30c. per ft.; Lindgren & Hicks, San Francisco, $20,468, complete; Frick Bros. & Purich, Los Angeles, $12,598, except pipe; A. S. Bent, Los Angeles, $21,998, complete; N. C. Register, Los Angeles, $9,900, except p[illegible] and settling chamber; L. Fleming, Pomona, Cal., $10,9[illegible] except pipe; R. Beyrle, Los Angeles, 62 cts. per ft.; M[illegible]tin & Ormand, Riverside, $27,500, except settling chamb[illegible] Williams, Balser & Co., San Francisco, $22,732, compl[illegible] Keystone Iron Works, Los Angeles, $420, for iron work.

CHESLEY, ONT.—Bids are asked until Sept. 6 for c[illegible]structing pipe sewers in Main, King and High Sts. J. McNeil, Clk.

PEMBROKE, ONT.—Bids are asked, according to [illegible]ports, until Sept. 10 for constructing about 5,000 ft. [illegible] sewers. J. L. Morris, Engr.; W. E. O'Meara, Chn. Sewerage Com.

GARBAGE DISPOSAL—STREET CLEANING

MONTCLAIR, N. J.—The matter of a garbage crem[illegible]tory has not yet been decided by the council. Reque[illegible] has been made to hold a joint meeting with surroundi[illegible] municipalities without result. Harry Tuppert, Town Cl[illegible]

SAVANNAH, GA.—The council has passed the ordina[illegible] directing that receptacles be used for the removal of ga[illegible]bage. Alderman Dixon, Chn. Com.

TOPEKA, KAN.—The council is considering the que[illegible]tion of using cans on the sidewalks as receptacles for waste paper, and other rubbish collected from the street[illegible]

VALLEJO, CAL.—Plans for a salt water street sprink[illegible]ling plant are being prepared. The plant will be built in the spring. A. P. Noyes, Cy. Engr.

STREETS AND ROADS.

BOSTON, MASS.—Bids are asked by the highway commission, 4 Mt. Vernon St., until Sept. 6, for constructing about 3,300 ft. of state road in Acton, about 7,200 ft. in Gardner and about 4,300 ft. in Attleborough.

LEE, MASS.—The selectmen are said to have let the contract for constructing the road from Lee to Lenox, to Schute & Rightmeyer, of Hudson, N. Y., at $14,775.

PAWTUCKET, R. I.—We are informed that the question of building a road to Attleboro has not yet been discussed in this city. Geo. A. Carpenter, Cy. Engr.

WESTERLY, R. I.—The council has voted to appropriate $6,000 for paving Main St.

HARTFORD, CONN.—The board of aldermen has appropriated $5,000 for macadamizing a portion of Water St.

MIDDLETOWN, CONN.—The contract for constructing a road to Litchfield has been let to T. S. Tryon, at $4,500.

NEW HAVEN, CONN.—The council is said to have awarded the following contracts for street work: Upson & Grannis, paving Cassius St., $1,789, and Blatchley Ave., at $4,628; C. W. Blakeslee, 58 Waverley St., paving Ferry St., at $1,592.

NEW YORK, N.Y.—The board of public improvements has ordered Macomb's Dam Bridge, Washington Bridge and the Third Ave. Bridge to be repaved.

HARRISON, N. J.—Bids are asked by Wm. Healey, Borough Clerk of East Newark until Sept. 12, for paving Third St. with trap rock. C. M. Borrie, Borough Engr., 757 Broad St., Newark.

NEWARK, N. J.—The board of street and water commissioners has passed ordinances providing for the paving of Ridgewood Ave. and Fifth St. with sheet asphalt. Geo. M. Ballard, Pres. Bd., Wm. E. Greatbead, Clk.

BIRMINGHAM, ALA.—We are informed that no steps have yet been taken toward paving Fifth Ave. and that nothing will be done at present. J. C. Murray, Secy. The city is said to have sold $10,000 in bonds for grading and improving 17th Ave.

NEW ORLEANS, LA.—We are informed that the sewer and water board will construct about 17,000 sq. yds. of asphalt pavement on Third St. R. M. Harrod, Ch. Engr.

OWENSBORO, KY.—The council has passed ordinances providing for the improvement and paving of Main, Frederica and Fourth Sts.

ADDYSTON, O.—Bids are asked until Sept. 12 for laying Portland cement sidewalks. W. T. Coleman, Village Clk.; E. F. Layman, Village Engr., 32 East Third St., Cincinnati.

CINCINNATI, O.—Bids are asked by the board of public service until Sept. 26 for paving Eastern Ave. with asphalt. Robert Allison, Pres.; Geo. F. Holmes, Clk.——The board of public service has ordered Hunt St. paved with granite blocks, to cost about $87,245.

FINDLAY, O.—Bids are asked, according to reports, until Sept. 13 for improving Fair St. and alley intersections with blocks. F. C. Ray, Cy. Clk.

KENTON, O.—Bids are asked until Sept. 10 for improving High St. J. P. Dugen, Cy. Clk.; W. E. Meyers, Cy. Engr.

LOCKLAND, O.—A special election will be held here, according to reports, on Oct. 1 to vote on the question of issuing $40,000 in bonds for street improvements.

MARION, O.—Bids are asked until Sept. 29 for paving Greenwood St. with brick or blocks. James I. Beatly, Cy. Clk.

NELSONVILLE, O.—Bids are asked until Sept. 22 for improving Washington St. G. E. Wells, Mayor; J. R. Hickman, Clk.

OBERLIN, O.—Bids are asked, according to reports, until Sept. 18 for macadamizing West Lorain and North Main Sts. C. H. Snyder, Village Clk.

TOLEDO, O.—Bids are asked until Sept. 24 for paving Farrer St. and Delaware Ave. J. E. Connell, Cy. Clk.——The contract for grading Hamilton St. has been let to E. B. Hall at $3,362, and for grading Victoria St., to Garrigan Bros., Valentine Bldg., at $1,506.

RUSHVILLE, IND.—Bids are asked until Sept. 6 for constructing about 4,500 sq. yds. of block pavement in several alleys. William Dull, Cy. Engr.

DETROIT, MICH.—Hetherington & Berner, 27 West South St., Indianapolis, Ind., submitted the only bid to the board of public works for an asphalt plant. Their bid was $10,460 for a plant with a capacity of 1,325 yds. of asphalt a day and a building 28 × 63 ft. The plant to have two mechanical agitators and two open-topped kettles. For a plant with one agitator and one kettle their bid was $9,744. The Schillinger Bros. Co., Sheridan Ave., Chicago, Ill., submitted specifications for a portable plant, to cost about $4,000.

OSHKOSH, WIS.—The contract for paving about six blocks of Main St., with bricks, has been let to A. E. Ruttledge & Co., of Rockford, Ill., at about $17,000.

DES MOINES, IA.—Press reports state that it is proposed to pave West Grand Ave. with brick, for a distance of about a mile.

ST. PAUL, MINN.—Bids are asked until Sept. 10 for grading a portion of Rice St. W. R. Johnson, County Auditor.

OMAHA, NEB.—The council has passed ordinances providing for the improvement of 24th and Chicago Sts. M. D. Karr, Pres. Cy. Council; W. H. Elbourn, Cy. Clk.

SACRAMENTO, CAL.—Bids are asked by the board of county supervisors until Sept. 7, for constructing about 4,400 ft. of macadam road, 16 ft. wide. W. B. Hamilton, Clk.

SAN FRANCISCO, CAL.—The board of public works has recommended the repaving of Main St., to cost about $7,000, and of Fourth St., to cost about $8,000.

OROFINO, IDAHO.—Bids are asked by the county commissioners until Sept. 10 for constructing the Clearwater Hill wagon road. Horace M. Davenport, Clk.

MANUFACTURING PLANTS.

MANCHESTER, VA.—Geo. C. Scott, Secy., writes us that the Richmond Electric Co. has been incorporated to manufacture electrical machinery. The contract for the plant, which will be run by electricity, has been let, but the machine tools are yet to be purchased.

GAINESVILLE, GA.—Judge Aldrich has granted the right to the Pacolet Mfg. Co., of Pacolet, S.C., to erect a new cotton mill near here.

HENRIETTA, N.C.—Radshaw & Radshaw, Engrs., Spartanburg, S. C., inform us that bids will be received in 30 days for the erection of a cotton mill, to have about 60,000 spindles. The plant will cost about $1,500,000. Plans are being prepared and materials are being secured. The plant will be owned by R. R. Haynes & Co., Henrietta.

JACKSONVILLE, FLA.—The Richardson Investment Co. is said to have purchased 12 acres of land here, and will extend the Florida Soap Works, build a number of dwellings, a new laundry building, a tallow department and stables.

MASSILLON, O.—The contract for erecting the new 4-story brick main building, 76x109 ft. for the Schuster Brewing Co., to cost about $100,000, has been let to John Meinhart & Son, Wm. Geisser Engineering Co., 109 Randolph St., Chicago, Ill.

TEXARKANA, TEX.—The Texarkana Chair Factory, on College Hill, owned by J. T. Murphy & Co., was recently destroyed by fire, according to reports.

MONTREAL, QUE.—Fire recently destroyed the storage building of the St. Anne Cotton Mills, owned by the Dominion Cotton Co.; loss about $50,000.

MISCELLANEOUS CONTRACTS.

DRY-DOCK.—San Francisco, Cal.—Reports state that the Risdon Dry-Dock Co. will build a new floating dry-dock.

FILLING.—Toledo, O.—Bids are asked until Sept. 17 for filling the slips at the foot of Ash St. J. E. Connell, Clk.

DOCKS, ETC.—Portland, Me.—It is stated that the Portland Railway & Terminal Co., will erect a set of docks, warehouses, etc., here at once.

BEACONS.—Mobile, Ala.—Bids are asked until Oct. 1 for furnishing and setting two beacons at Big Marco Pass, Fla. Lieut.-Col. A. N. Damrell, U. S. Engr.

STEAM LAUNCH.—Bellevue, Pa.—Bids are asked until Sept. 20 for a steam launch about 65 ft. in length, with a floating boathouse. Maj. Wm. H. Bixby, U. S. Engr.

LEVEE WORK.—Memphis, Tenn.—Bids are asked until Sept. 8 for constructing certain work in the Upper St. Francis levee district. Capt. E. E. Winslow, U. S. Engr.

LEVEE WORK.—Greenville, Miss.—Bids are asked until Sept. 12 for about 190,000 cu. yds. of levee work. E. M. Hichs, Pres. Bd. Comrs. of the Tensas Basin Levee Dist.

ARMY RANGES.—Jeffersonville, Ind.—Bids are asked until Sept. 25 for furnishing 285 army ranges, and appendages for same. C. R. Barnett, Deputy Q. M.-Gen.

RAPID TRANSIT TUNNEL.—New York, N. Y.—The contract for constructing the rapid transit tunnel from 33d to 41st St. in Park Ave., has been let to Ira A. Shaler, 50 East 59th St.

TELEPHONE LINE.—Staunton, Va.—Bids are wanted at once by the Long-Distance Telephone Co. of Virginia, for constructing 134 miles of copper wire line, and later on for about 400 miles.

WHARVES, ETC.—Hopewell Hill, N. B.—The contract for erecting the new wharf and breakwater at Hopewell Cape, to cost about $20,000, is said to have been let to E. W. Lynds and Warren Dowsey.

VAULTS, ETC.—New York, N. Y.—Bids are asked until Sept. 17 for the new money vaults, toilet room, etc., at the U. S. sub-treasury buildings. Jas. K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C.

FIRE APPARATUS.—Massillon, O.—An ordinance has been introduced into the council providing for an appropriation of $8,000 for new hose, fire wagons and a new fire alarm system, according to reports.

BOILERS.—New York, N. Y.—Bids are asked until Sept. 15, for furnishing and installing one 200-HP. water tube boiler at the navy yard. M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C.

COAL HANDLING APPARATUS.—Washington, D. C.—Bids are asked until Sept. 11 for erecting a coal and ash handling apparatus and a coal crusher for the U. S. Bureau of Engraving and Printing. James K. Taylor, Supv. Arch., Treasury Dept.

RAILROAD MATERIALS.—League Island, Pa.—Bids are asked until Sept. 11 for furnishing a quantity of railroad ties, steel rails, frogs, trolley materials, one trolley car, etc., at the navy yard. A. S. Kenny, Paymaster-Gen., U. S. N., Washington, D. C.

NAVAL SUPPLIES.—Puget Sound, Wash.—Bids are asked until Sept. 18, for furnishing a quantity of electrical supplies, hardware, manila rope, cap blocks, lumber, etc., at the naval station. A. S. Kenny, Paymaster-Gen., U. S. N., Washington, D. C.

FIRE APPARATUS, ETC.—New York, N. Y.—Bids are asked by the fire department, 157 East 67th St., until Sept. 19 for furnishing three hose wagons, 25 fire alarm signal boxes, and alterations to buildings in Manhattan and Bronx Boroughs, and for 60 fire alarm boxes and alterations and repairs to buildings in Brooklyn and Queens Boroughs.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until Sept. 11 for furnishing a quantity of electric supplies, tools, pulleys, screws, iron pipe, etc., at the navy yard, Portsmouth, N. H., and a quantity of steel shapes, electrical supplies, machine tools, generating sets, a locomotive crane, etc., at the navy yard, Boston, Mass. A. S. Kenny, Paymaster-Gen., U.S.N.

LOCK, ETC.—Charleston, S. C.—We are informed that the following bids were received August 23 by Capt. J. C. Sanford, U. S. Engr., Custom House, for building a lock and abutment in the Congaree River, near Columbia, as advertised in Engineering News: The Evansville Contract Co., Evansville, Ind., (1) $75,621, (2) $75,621; Christie, Lowe & Heyworth, 171 La Salle St., Chicago, (1) $96,418, (2) $100,817; Geo. W. Waring, Columbia, S. C., (1) $95,605, (2) $104,405; Frank Pidgeon, Saugerties, N. Y., (1) $126,400, (2) $126,400; Stewart Contracting Co., Columbia, S. C., (1) $94,745, (2) $99,145; Geo. O. Tenney, Spartanburg, S. C., (1) $89,255, (2) $87,055.

FOREIGN CONTRACTS AND EXPORT NEWS.

THEATRE.—Vera Cruz, Mex.—Reports state that plans are wanted for a new theatre building until Sept. 28. The building is to be completed by Aug. 1, and is to cost $80,000.

WATER SUPPLY.—Kimberley, Cape Colony, So. Africa.—C. K. O. Molony, Town Clk., of Kimberley, is said to be inviting communications regarding a water supply for this city.

ASYLUM BUILDINGS.—Upper Warlingham, Eng.—The Croydon council proposes to build a new lunatic asylum, at a cost of about $1,000,000, according to reports. Thos. Walker, Borough Engr.

STEEL BRIDGES.—Honolulu, H. I.—Bids are asked until Oct. 1 for two steel highway bridges. Plans and specifications may be seen at the office of Welch & Co., San Francisco, Cal. J. A. McCandless, Supt. Pub. Wkz.

PUBLIC IMPROVEMENTS.—Sutton Coldfield, Eng.—It is proposed to spend about $180,000 for an electric plant for Sutton Coldfield.——The Bradford Street Improvement Committee has recommended improvements to streets in Bradford, to cost about $5,000,000.

BUILDING MATERIALS, ETC.—Havana, Cuba.—It is said that Purdy & Henderson, General Contractors, Mercaderes 15½, Havana, want to secure catalogues, prices, etc., on all kinds of building materials, tools, machines, water pipe, plumbing supplies, etc.

RAILWAY.—El Paso, Tex.—It is proposed to build a railway from the state of Sonora, Mex., to El Paso, Tex. Frank W. Wakefield, Supt. National Cattle Co., Chicago; I. E. Ross, Philadelphia, Pa., and J. W. Crowley, of Midland, Tex., are said to be interested.

RAILWAY.—Moscow, Russia.—A group of American financiers, according to a dispatch from Moscow, has acquired the Moscow-Archangel Ry. A company has been formed. It is believed that Messrs. Marmonton, the Moscow millionaires, will retain a large interest.

ELECTRIC PLANT.—Tenancingo, Mex.—The El Oro Trading Co. is reported to have secured a concession for an electric plant. A power plant to develop about 800 HP. will be built and the power transmitted to the manufacturing already built or proposed. Population, 12,000.

ELECTRIC TRAMWAY.—San Jose, Costa Rica.—The city has granted permission to the Costa Rica Electric Light & Traction Co. to extend its electric roads in the city and to Sabana, etc. H. J. Purdy, Mgr. Andreas & Co., 111 Broadway, New York, are the purchasing agents in the U. S.

IRON AND STEEL.—Madrid, Spain.—Bids are asked by the Ministry of Marine for a supply of steel and iron to the Arsenal of Ferrol up to June 30.——New bids are wanted at once for the tubing, etc., for the pumping apparatus of the cruiser "Princesa de Asturias," to cost about $7,000.

ROADS.—Philippine Islands.—It is said that the U. S. government at Washington is considering plans for better roads in the islands, particularly Luzon. The government has received a request for permission to extend the one railroad in Luzon to a point about 50 miles to the north. This request will be granted if possible.

COAL.—Cape Town, Cape of Good Hope.—Bids are asked by the agent-general of the Cape of Good Hope, 112 Victoria St., S. W., London, Eng., until Oct. 1 for furnishing the Western Ry. with 84,000 tons (2,000 lbs.) of steam coal, and the Midland Ry. with 12,000 tons, in 12 monthly shipments, the first to be not later than April 1.

ALLOY PLANT.—Nuremberg, Germany.—Reports state that Die Deutsche Wachwitzmetall Gesellschaft has been formed at Nuremberg, with a capital of $500,000, to acquire and exploit the rights in a new iron aluminum and copper aluminum alloy. Land has been secured at Hersbruck, near Nuremberg, on which to establish works.

RAILWAYS.—Mexico.—The San Jorges Bay & Eastern R. R. Co. has been organized to build a line from the works of the Los Pincos Mining & Milling Co. to the Bay of Jorges on the Gulf of California. J. H. Holmes, Pres., Pasadena, Cal.; J. D. Thompson, of Los Angeles, Cal., Frank C. Bolt and Geo. C. Holden, of Pasadena, Cal., are interested.

VIADUCTS AND TRAVELER.—London, Eng.—Bids are asked by the crown agents for the colonies, Downing St., London, S. W., Eng., until Sept. 26 for furnishing and erecting trestle viaducts and traveler for the Uganda Ry., Mombasa, British East Africa. This line is being built from Mombasa to Lake Victoria, 655 miles. F. Rawson, Ch. Engr., Mombasa.

BRIDGE.—Sydney, N. S. W.—Bids are asked by the Engineer-in-Chief for Railway Construction, Public Works Dept., Sydney, until Oct. 22 for furnishing the materials and for constructing the superstructure of the Wollondilly River Bridge, Goulburn & Crookwell Ry. Specifications may be seen at the Commercial Intelligence Branch of the Board of Trade, 50 Parliament St., S. W., London, Eng.

FIREPROOF HOUSES, MATERIAL, ETC.—Mexico, Mex.—We are informed that V. Cascino, Apartado Postal 912, Mexico City, who has an inquiry for 50 ready-made houses of fireproof wood, wishes the names at once of manufacturers of fireproofing materials. Mr. Cascino has also an inquiry for a 4-story fireproof building. It is desired to receive bids from construction companies who will erect the entire structure.

ELECTRIC TRAMWAYS.—Buenos Aires, Argentina.—Reports state that La Capital Tramways Co., Buenos Aires and Havemeyer Bldg., 26 Cortlandt St., New York, has secured control of the Buenos Aires New Tramway Co., Ltd., and the Grand National Tramway Co. The purchasing company, which has over 22 miles of electric and 3¼ miles of horse railway, will extend the new lines and convert them into electric traction. C. R. Thursby, Engr.

RAILWAY.—Tunis.—An agreement has been made between the Director of Public Works and the Societe de Construction des Batignolles, Paris, France, and the harbor companies of Tunis, Sousse and Sfax for the construction and working of the railway from Pont-du-Fahs to Kalaatesenam with a possible branch line towards Keff. The principal line will be 118 miles long, and the branch line about 22 miles. This enterprise will necessitate a capital of about $40,000,000.

WIRE ROPEWAY.—Yatung, China.—The report of the Commission of the Chinese Imperial Maritime Customs at Yatung for 1899 states that it is proposed to connect the Jalep Pass with Siliguri, by a wire ropeway. One drawback to trade across Sikkim is the expense of pack transport. A wire ropeway would seem to be well adapted to the Sikkim-country, which is a mass of high hills and narrow valleys, and to be the cheapest way of supplying an expeditious means of transport to the plains.

RAILWAY.—Central Africa.—An English paper states that Commissioner Sharpe, in his report upon the administration of the British Central Africa Protectorate for the year ending March 31, states that new roads have been built, and the question of a Shire Highland Trunk road, commencing at Chiromo and running through the Cholo district to Blantyre, is under consideration. The past year has shown conclusively that a railway from Chiromo to Blantyre, eventually to be extended from the latter place to Lake Nyassa, is necessary for the welfare and advance of the Protectorate.

ACETYLENE GAS, ETC.—St. Petersburg, Russia.—We are informed that acetylene has so far been very little used in Russia. In St. Petersburg acetylene light is to be seen only in cycle and a few carriage lamps.——Carbide works will soon be constructed in a city in the south of Russia. I. Wik, Mech. Engr., 45 Kasanskaja, St. Petersburg, is starting a business for acetylene installations.——Snow melting machines would find a market in St. Petersburg and other Russian cities. The duty in Russia has been increased on several articles from 10 to 50%. Agricultural and dairy implements are still free of duty.

POWER PLANTS.—A 30-year concession has just been granted for a plant to utilize the water power of the Varaita at Venasia (Como), Italy.——It is reported that works are about to be established to utilize the waterfalls of Narowain and Imatra, in Finland, the energy generated to be transmitted to St. Petersburg.——The Societe Hellenique d'Electricite, of Athens (Greece) has recently obtained a concession for the electric lighting of Euripa. It is proposed to use the current of the Euripa Canal for the production of the necessary electrical energy. Should the plan not prove practicable, recourse will be had to gas engines.

RAILWAYS.—Cape of Good Hope, So. A.—We are informed that besides the order recently secured by the Carnegie Steel Co., of Pittsburg, Pa., for 4,000 tons of rails from the Cape Government Railways, the company also secured an order as far back as January for 3,000 tons. In June a further order for 4,000 tons was placed. Since then an order for frogs, switches and other railway materials has been placed with the Union Switch & Signal Co., 43 Cedar St., New York, N. Y. Other orders are to follow. F. Stuart Williamson, Consult. Engr., 257 Broadway, New York, is the inspector for the Cape Government Railways.

RAILWAY.—Costa Rica, C. A.—Reports state as follows: The Northern Ry. of Costa Rica has recently been organized under the laws of Costa Rica by the United Fruit Co., Pier 1, Old, North River, New York city. It is capitalized for $1,000,000 stock and $1,000,000 5% bonds. It will run from the coast inward, a distance of 60 miles, largely through the plantations of the United Fruit Co. The $1,000,000 bonds have all been underwritten by a syndicate, composed largely of Boston parties. These bonds will be sold when the market conditions are better to complete the building of the road, which is now about one-half constructed. The Northern Ry. will derive a large portion of its income from the carrying of fruit grown on the properties of the company.

ELECTRICAL APPARATUS.—England.—Bids are asked by A. Andrew, Gas and Water Office, Oldham, until Sept. 11 for dry-back marine and water-tube boilers, etc.; by F. W. G. Webb, Acting Clk., Hammersmith, until Sept. 12 for two single-phase alternate current motors; by Geo. Grocott, Vestry Clk., Hackney, London, until Sept. 12 for a complete electric plant; by Horace Boot, Elec. Engr., Tunbridge Wells, until Sept. 20 for a supply of high and low-tension cables; by A. S. Barnard, Elec. Engr., Hull, until Sept. 27 for steam and water pipes, feed pump, water softener, etc., and by A. P. Johnson, Vestry Clk., St. John, Hampstead, London, until Sept. 27 for extending the electric light plant. Bids are wanted at once by W. Dyack, Borough Surv., Aberdeen, Scotland, for 800 tons of steel rails and 10,000 tons of causeway setts for the new trolley lines in Union St. J. A. Bell, Elec. Engr., Aberdeen, wants the bids for the tramway poles. Mr. Bell is to report on the make of car to be used and the number required. He has also been corresponding with American firms regarding the electrical equipment, etc.——A syndicate is reported as being formed to build electric roads in Cheshire and Liverpool districts, including a line across the Dee estuary and an underground station in Liverpool. The estuary line will be about 14 miles long.

CONTRACT PRICES.

SEWER PIPE.—Port Chester, N. Y.—The following bids were received Aug. 29 for constructing pipe sewers; all work of excavating earth, furnishing and laying the pipe in a concrete cradle 3 ins. in depth underneath the pipes, backfilling the trenches and restoring the surface of streets (unpaved) is included in the price per ft. for the sewers; the allowable section of rock is 3 ft. at the bottom, increasing in width from the bottom up at the rate of 3 ins. per ft. on each side, until a total width of 12 ft. is attained, and vertical for the remainder; the depths range from 7 to 15 ft., an average of about 9½ ft.; all are local bidders; contract awarded D. Murray; F. S. Odell, Engr., Ryan Bldg., Port Chester:

Quantities.	L. J. Kennedy.	A. Caesario.	D. Murray.	John O. Merritt.	Roosevelt & Sullivan.
Pipe sewer:					
6-in. .4,385 lin. ft.	$0.545	$0.65	$0.40	$0.82	$0.60
8-in. . 765 " "	.77	.85	.50	1.30	1.08
10-in. .2,693 " "	.925	.95	.60	.88	.65
12-in. . 405 " "	.95	1.00	.65	.92	.90
18-in. .2,834 " "	1.42	1.20	1.05	1.45	1.88
Rock ....5,000 c.yds.	2.70	2.35	2.60	2.85	2.70
Manholes. 36 each.	41.75	30.00	45.00	45.00	55.50
Timber ..1,000 ft....	150.00	5.00	25.00	30.00	30.00
Fish gtes. 9 each.	50.00	40.00	80.00	70.00	50.00
Total	$25,482	$23,000	$22,806	$27,972	$26,878

DREDGING.—Columbia River, Ore.—The following bids were received Aug. 27, 1900, by Capt. W. C. Langfitt, U. S. Engr., Portland, Ore., for dredging in the Columbia River, near Astoria:

Bidder.	Rock excavt'n, 12,500 cu. yds.	Dredging 4,500 cu. yds.	Dredging 325,000 cu. yds.
Smyth & Howard, Portland, Ore.	$20.50	$0.90	$0.70
Puget Sound Bdg. & Drdg. Co.*	19.95	.95	.62½
J. Paquet & Co., Portland, Ore..	20.75	.63	.63
M. C. Harris, San Francisco...	20.00	1.00	.60

*Of Seattle, Wash.

LEVEE WORK.—Memphis, Tenn.—The following bids were received Aug. 30, 1900, by Capt. E. Evleth Winslow, U. S. Engr., for levee work in Lower St. Francis District: A. A. Arnold & Co., Memphis, 11⅝ cts.; Thompson & Powell, Hollywood, Miss., 11.90 cts. and 10.99 cts.; M. J. Roach, Memphis, 10.75 cts.; Aderholdt & Lawrence, Friar's Point, Miss., 12.24 cts.; R. E. Lee Wilson, Golden Lake, Ark., 12.10 cts.; McCadden & Co., Memphis, 11.40 cts.; P. H. Rogers, Memphis, 13.40 cts. and 13.70 cts. Upper Yazoo Levee—M. J. Roach, 20.24 cts. and 21.15 cts.; Aderholdt & Lawrence, 19.87 cts. and 21.24 cts.; P. H. Rogers, 23 cts. and 25 cts a cu. yd.

WATER-WORKS.—Fort Recovery, O.—The following bids were received Aug. 15, 1900, for furnishing materials and for constructing water-works; the bids for the electric plant being given under Electric Light and Power; new bids for the gas engine and pump are wanted until Sept. 20: (1) T. C. Brooks, Jackson, Mich., awarded contract, with steel tank and tower, $3,240; (2) Greenville (O.) Pumping Co., bid for pipe line only; (3) W. W. Hatch & Son, Goshen, Ind., for pipe line and electric plant, $4,728; (4) John M. Healy, Chicago, and (5) Wagoner Construction Co., Dayton, O., both are for pipe line only; H. D. Hallett, Engrs., Aurora, Ill.:

		1.	2.	3	4.	5.
Cast-iron pipe	8-in.	$0.73	$0.73	$0.72	$0.69	$0.72
	6-in.	.57	.54	.60	.56	.59
	4-in.	.42	.44	.50	.43	.43
Hydrants	6-in.....	24.25	28.00	35.00	29.00	28.00
	4-in.....	23.00	23.00	30.00	23.60	23.00
Valves.	8-in.....	18.50	19.00	24.00	17.00	19.00
	6-in.....	14.50	14.00	17.50	11.80	14.00
	4-in.....	10.50	9.60	13.50	6.90	9.70
Brick manhole		40.00	25.00	50.00	60.00	40.00
Wrt-i. pipe.	8-in...	2.30	1.35	1.50	2.00	2.50
	6-in...	2.00	1.20	1.20	1.00	2.50
	6-in.*.	1.25	1.20	1.20	1.00	2.00
Total		$15,971	$12,462	$18,666	$12,429	$13,080

*In well. The Challenge Wind Mill Co., Batavia, Ill., bid $3,250 for a tower and steel tank; two 25-HP. gas engines, the National Meter Co., Chicago, $2,750; Westinghouse, Church, Kerr & Co., Chicago, $3,200; Springfield Engine Co., Springfield, O., $2,012; 100-HP. gas engine, the National Meter Co. $4,050; Westinghouse, Church, Kerr & Co., $4,700; the Auglaize Machine Co., St. Marys, O., bid $4,750 for two 25 and two 50-HP. gas engines. For two power pumps of 350 gallons capacity per minute each, C. A. Lucas & Co., Greenville, O., $2,450; the Henry R. Worthington, 120 Liberty St., New York, $2,475; Stilwell-Bierce & Smith-Vaile Co., Dayton, O., $2,600; the Gould Pump Co., Chicago, bid $6,300 for two power pumps and two 25-HP. gas engines.

CEMENT SIDEWALKS.—Wabash, Ind.—The following bids were received Aug. 27 for furnishing the materials and for laying cement sidewalks on Hill St.; Robt. P Woods, Cy. Engr.:

Bids Received at Wabash, Ind., Aug. 27, 1900, for Constructing Cement Sidewalks.

Bidder.	Concrete, 10,780 lin. ft. Stone.	Concrete, 10,780 lin. ft. Gravel.	Extra, 6,460 sq. ft.	For repairs.	Lump sum; 5 yr. grntee.	Total cost of concrete. With stone.	Total cost of concrete. With gravel.
*V. Smith, Wabash, Ind.	$1.33	$1.28	$0.16½	$0.16	$120.00	$15,523	$14,984
P. Hipskind & Sons, Wabash, Ind.	1.15	1.09	.16	.20	225.00	13,655	13,009
†C. M. Kirkpatrick, Greenfield, Ind.	.84	.78	.14	.13	285.00	10,244	9,607
Byron D. Souders, Lafayette, Ind.	.99	.95	.14¾	.16	200.00	11,825	11,393
C. A. Howind, Jackson, Mich.	.91	.86	.16	.16	125.00	10,968	10,429
C. J. Tobin & Co., Jackson, Mich.	1.08	.96	.14½	.14½	220.00	12,799	11,505
Bridges Bros., Wabash, Ind.	.98½	.96	.15	.20	500.00	12,087	11,820
Stamsen & Blome, Chicago, Ill.	.88½	.869	.13¾	.15	150.00	10,578	10,406

*Awarded contract for sanitary sewer. Main St. at 64 cts. †Awarded contract at 84 cts. per ft.; total, $10,244. Total length of 6-ft. walk, including lawn, 10,780 ft.; width of walk, including lawn, 16.5 ft.; width of walk, 6 ft.; width of lawn, 10.5 ft.; square feet of extra walk at public places, intersections, 6,460 ft.; total square feet of cement work, 71,140 ft.; average excavation, 12 ins. to finish grade, also about 70 trees to remove.

CEMENT.—Little Rock, Ark.—The following bids were received Aug. 22, 1900, for furnishing 5,000 bbls. of American Portland cement, as advertised in Engineering News; Capt. Robt. McGregor, U. S. Engr.: Virginia Portland Cement Co., 81 Fulton St., New York, $2.06, "Old Dominion" brand on Iron Mountain Ry.; Glencoe Lime & Cement Co., St. Louis, Mo., $2.30, "Lehigh" brand, at Bird Point, Mo.; Michigan Portland Cement Co., Detroit, Mich., $2.70, "Wolverine" brand, St. L., I. M. & So. C., O. & G. Ry or L. R. & Ft. S. Ry.; Alpha Portland Cement Co., Easton, Pa., $2.20, "Alpha" brand, Birds Point, Mo.; Thorn & Hankins, Lime & Cement Co., St. Louis, Mo., $2.35, "Atlas" brand, Birds Point, ; Iola (Kan.) Portland Cement Co., $2.25, "Iola" brand, Alma, Ark., L. R. & Ft. S. Ry.

PIPE SEWERS.—Rockford, Ill.—The following bids were received Aug. 25, 1900, for furnishing the materials and for constructing pipe sewers; contract awarded G. Maffioli; Edwin Main, Cy. Engr.:

Quantities.		G. Maffioli, 211 E. State St., Rockford.	James H. Roche, 210 31st St., Chicago.
9-in. pipe sewer..	5,000 lin. ft..	$0.63	$0.65
12-in. " " ..	1,550 " "	.75	.90
15-in. " " ..	1,000 " "	1.00	1.10
18-in. " " ..	400 " "	1.25	1.25
20-in. " " ..	780 " "	1.60	1.50
Y's for 9-in. pipe..	140 each...	.30	.50
For 12-in. pipe.	20 " ...	.40	.75
For 15-in. "	12 " ...	.50	1.25
For 18-in. "	6 " ...	.65	1.80
For 20-in. "	12 " ...	.75	2.50
Manholes: Ordinary	2 " ...	35.00	35.00
Combined	10 " ...	68.00	65.00
Lampholes	10 " ...	12.50	7.50
Intakes	18 " ...	20.00	10.00
Flushtanks	2 " ...	85.00	70.00
Total		$8,534	$8,671

GRADING.—Washington, D. C.—The contract for grading 11th St., about 80,000 cu. yds., has been let to R. A. Malone, at 28 cts. The Shanahan Woolfolk Co. also bid 28 cts., and the contract was decided by lot.

BRICK PAVING.—Hartford, Conn.—The contract for asphalt paving in Capitol Ave. has been let to the Southern New England Paving Co., at $1.90 a sq. yd.

ASPHALT PAVING.—New York, N. Y.—The following bids were received Aug. 28, 1900, for grading and asphalt paving in Mott Ave., from 138th St. to 161st St., Bronx Borough; (1) is for 26,800 sq. yds. of paving, (2) for 5,000 cu. yds. concrete, and (3) for 9,500 lin. ft. of old curb:

	1.	2.	3.	Total.
Warren-Scharf Asp. Pvg Co...	$1.88	$6.20	$0.90	$89,934
Atlantic Alcatraz Co.....	1.90	6.25	.90	90,720
Asphalt Construction Co.....	1.90	6.40	.97	92,135
Barber Asphalt Paving Co....	1.92	6.25	.95	91,731
Mack Paving Co.	2.09	6.65	.95	98,287

WELL.—Cherokee, Ia.—P. G. Wilson, of Belleville, Ind., is reported to have been awarded the contract as follows for sinking a well for a water supply: First 400 or 450 ft., or until bedrock is struck, to furnish materials, 12-in. pipe, $4 a ft. After bedrock is reached a 9-in. pipe will be used, the work and materials being furnished for $3.50. The next pipe, 6 ins. in diameter, $2.60, and the last portion of the well, which will be 6 ins. in diameter with no pipe, will be bored for $2 per ft.

DITCH.—Michigan City, Ind.—The contract for digging Staiebel ditch has been let to J. E. Schultz, Michigan City, at 8 cts. a cu. yd. for the main ditch and 7 cts. for the branch; total, $5,000.

ARTESIAN WELLS.—Fort Lincoln, N. Dak.—The following bids for sinking several 2-in. artesian wells on the reservation at Fort Lincoln, near Bismarck, were received Aug. 24, 1900, by Maj. Geo. E. Pond, Ch. Q. M., U. S. A., St. Paul, Minn.; Mark Sebrey, Bismarck, drilling, $1.25 per ft., testing, $5 a day; Francis Jaszkowiak, Bismarck, drilling, $1.70 per ft., testing, $12 a day; B. M. Beers, Menoken, N. Dak., drilling, $1.25 per ft., testing, $10 a day; Dwyer Plumbing & Heating Co., St. Paul, drilling, $2.10 per ft., testing, $7.50 a day. The wells are to be cased in wrought-iron pipe. The contractor is to supply an engine and pump for testing the capacity of the wells, and this shall be in service until satisfactory results are obtained. It is not proposed that any of the wells shall exceed the depth of 100 ft., and it is probable that none will go below the first stratum of water-bearing rock.

PUBLIC LIGHTING.—Oskaloosa, Ia.—The following bids were received Aug. 20, 1900, for lighting the city for five or ten years; up to about Aug. 30 the contract had not been let, the time for receiving bids still being open; C. E. Munroe, Cy. Clk.: Welsbach Street Lighting Co. of America, Chicago, $23.50 per 2,300 hours; Oskaloosa Light, Heat & Power Co., Oskaloosa, $96 per year 2,000-c. p. arc lights, $18 per year 32-c. p. incandescent lights; Oskaloosa Street Railway & Land Co., $96 per year 2,000-c. p. arc, $18 per year 32-c. p. incandescent lights.

SAND FILLING.—Fort Caswell, N. C.—The following bids were received Aug. 31, 1900, by Capt. E. W. Van C. Lucas, U. S. Engr., Wilmington, N. C., for about 500,000 cu. yds. of earth or sand filling, as advertised in Engineering News: Atlantic, Gulf & Pacific Co., Park Row Bldg., New York, 13.7 cts., by hydraulic method; Anderson-Murphy Co., 14 John St., New York, 16.75 cts., by steam shovels; Richard H. Brodhead, Easton, Pa., 20 cts., steam shovels; Trenton Stone & Construction Co., Trenton, N. J., 18 cts., steam shovels; and W. R. Bonsol & Co., Hamlet, N. C., 16 cts., steam shovels.

BRICK PAVING.—Elmira, N.Y.—The following contract for a new brick pavement in Market St. has been let to Costello & Neagle: Mack brick on sand, $1.52½ per sq.yd.; new curb, Medina, 58 cts. per lin. ft.; new curb, Medina, including radius, 77 cts.; resetting curb, 19 cts. a ft.; Mack wire-cut brick on concrete, $2.00½ a sq. yd.; new curb, Medina, 58 cts.

CANAL.—Port Huron, Mich.—The following bids were received Aug. 25, 1900, for furnishing the materials and for constructing a canal 6,600 ft. long, and 25 × 28 ft., from Lake Huron to Black River, as advertised in Engineering News; W. W. Phelps, Cy. Engr.; R. D. O'Keefe, Supt. Pub. Wks. Dept.; (1) being for excavating sand and clay, 440,000 cu. yds.; (2) for 400,000 yds.; (3) for 380,000 yds.; (4) for protection for opening of canal; (5) for four bridges: Hingston & Wells, 24 West Swan St., Buffalo, N. Y., (1, 2 and 3) 16 cts.; (4) $1,500; Talbot Bros. & Co., (1) 18½ cts., (2) 17¾ cts., (3) 27 cts., (4) $1,500; Toledo (O.) Bridge Co., (5) $11,149; Massillon (O) Bridge Co., $11,359; King Bridge Co., Cleveland, O., (5) $11,422. The bids were on three different routes for the canal, the (1) South Cemetery, the (2) North Cemetery, and the (3) North routes. Hingston & Wells bid is for 500 ft. haul of dirt; 1 ct. a cu. yd. for longer haul. The city is to find the dumping grounds. In Talbot Bros. bid the contractor is to take charge of the dirt.

ARMY WAGONS.—Jeffersonville, Ind.—Lieut.-Col. C. R. Barnett, Deputy Q. M.-Gen., received the following bids Aug. 18, 1900, for furnishing 250 tons army escort wagons; (1) being for wagons with seats (50, each), (2) without seats (200, each), (3) covered with canvas (250, each): Kentucky Wagon Mfg. Co., Louisville, Ky., (1) $87.66, (2) $83.51; Morrison Tent & Awning Co., St. Louis, Mo., (3) $3.44; W. C. Jackson, 24 Market St., Chicago, (3) $3.69; Studebaker Bros. Mfg. Co., South Bend, Ind., (1) $92.83, (2) $88.43; A. Streich & Bro., Oshkosh, Wis., (1) $103.75, (2) $98.75; The Milburn Wagon Co., Toledo, O., (1) $93.50, (2) $90.00; R. J. Patton & Co., Cincinnati, O., (3) $5.85.

PAVING BRICK.—Wilmington, Del.—The street and sewer department received the following bids Aug. 18, 1900, for 10,004 sq. yds. of paving brick, delivered and piled on the sidewalk: John M. Solomon, Reading, shale, 79 cts. a sq. yd.; John Jacoby, Townsend block, $1.12; Porter block, $1.07; Catskill, $1.01; American Clay Mfg. Co., New Cumberland, W. Va., Porter block, $1.05; brick, $1.05; T. B. Townsend Brick & Contracting Co., Zanesville, O., Jerome block, $1.21; Athens Brick Co., Athens, O., Athens block, $1.04; Chas. Warner Co., Montello block, 94.3 cts.; Hallwood, $1.05½; Mack Mfg. Co., $1.12.

LEVEE WORK.—New Orleans, La.—The following bids were received Aug. 27, 1900, for the following levee work, all river side enlargements; J. T. McClellan, Pres. Bd. Comrs.: Fifth Louisiana Levee District, East Carroll Parish, (1) being for Phil McGuire levee, station 1540 to 1572, cu. yds., 33,367; (2) Haggaman levee, station 1572 to 1587, cu. yds., 5,245; (3) Cohn levee, station 1587 to 1606, cu. yds., 22,016; (4) Hugh McGuire levee, station 1606 to 1636, cu. yds., 19,749; (5) Homstead levee, station 1986 to 2090, cu. yds., 97,982; (6) Transylvania levee, station 2179 to 2202, cu. yds., 4,430; (7) Stamboul levee, station 2202 to 2264, cu. yds., 14,073, Madison Parish; (8) O'Brien to Martin levee, station 4310 to 4382, cu. yds., 29,689; (9) Cabin Teele levee, 200,000 yds.: C. D. Leeper, Millikens Bend, La., (5) 16.73 cts., (9) 13.23 cts.; Donovan & Daley, Lake Providence, La., (1, 2, 3 and 4) 16.70 cts., (5) 14.40 cts., (9) 15.40 cts.; I. R. Bobbitt, Dewalls, La., (1, 2, 3 and 4) 18.80 cts., (5) 14½ cts., (8) 23 cts., (9) 15½ cts.; Dameron & White, New Orleans, La., (1, 2, 3 and 4) 17 cts., (5) 16 cts., (9) 14¾ cts.; Robert Nicholson, Villa Vista, La., (5) 14 cts., (6) 17 cts., (7) 16 cts.; McCadden & Co., (5) 16.45 cts.; Geo. M. Long, Delta, La., (8) 23½ cts.

WATER METERS.—Vallejo, Cal.—The following bids were received by the board of public works Aug. 23, 1900, for furnishing 100 ⅝-in. water meters: John Brownlie, 100 Hersey water meters, total $1,050, subject to necessary inspection and tests; H. E. Wilder, Niagara, total, $640; Christian Froelich, $8.75 each; Holbrook, Merrill & Stetson, 100 Nash water meters, $975, or a different kind, straight reading, for $875; G. F. Otis, 100 Columbia meters, $8.50 each, meters are all brass and made by the Columbia Water Meter Co.; Miller, Sloss & Scott, 100 Lambert meters, $9.24 each.

HYDRANTS.—Buffalo, N. Y.—The Howard Iron Works, of Buffalo, is said to have submitted the lowest formal bid at $40 each for 6-ft. hydrants, $39 for 5-ft., and $38 for 4-ft. The bid of the Cayuta Wheel & Foundry Co., of Sayre, Pa., was considered informal. There will be required about 100 hydrants. F. J. Illig, Supt. Water Dept.

DREDGING.—Philadelphia, Pa.—The following bids were received Aug 23, 1900, by Lieut.-Col. C. W. Raymond, U. S. Engr., for 550,000 cu. yds. of dredging in the Schuylkill River: American Dredging Co., Philadelphia, 19½ cts. a cu. yd.; River & Harbor Improvement Co., Camden, N. J., 17½ cts.

CARBONS.—Detroit, Mich.—The following bids were received by the public lighting commission Aug. 31, 1900, for the yearly supply of carbons, the United States Co. at a price representing about that of last year's contract: National Carbon Co., 425,000 pairs of copper-plated carbons, ⅝ × 11 and 9-16 × 8 ins., $12.20 per 1,000; 450,000 pairs copper-plated carbons, ⅝ × 8 and 7-16 × 7½ ins., $8.80 per 1,000; 40,000 pairs plain carbons, ⅝ × 14 and ½ × 12 ins., $15.65 per 1,000; 25,000 pairs plain carbons, ⅝ × 10 and ½ × 8½ ins., $11.20 per 1,000; The United States Carbon Co., Cleveland, O., bid for ⅝ × 11 and 9-16 × 8 ins., $18.75; for ⅝ × 8 and 7-16 × 7½ ins., $14; ⅝ × 14 and ½ × 12 ins., $20; for ⅝ × 10 and ½ × 8½ ins., $16.

ENGINEERING MATERIAL PRICES

TRACK MATERIAL—
Chicago—Steel fish plates, 1.60 to 1.70 cts.; spikes, 1.75 to 1.80 cts.; track bolts, 2.25 to 2.30 cts.
Pittsburg—Steel fish plates, 1.80 to 1.90 cts.; spikes, 1.75 cts.; track bolts, 2.10 to 2.15 cts.

RAILS, STEEL—
New York—New, $35; old iron, $12 to $14; old steel, $11 to $13.
Chicago—New, $35 to $38; old iron, $12.50 to $13; old steel, $10.50 to $11.
Pittsburg—New, $35 to $38; old iron, $12 to $13; old steel, $12.

STRUCTURAL STEEL—
New York—Beams, 1.65 to 1.70 cts.; channels, 1.70 cts.; tees, 1.65 to 1.75 cts.; angles, 1.30 to 1.40 cts.
Chicago—Beams, 1.65 to 1.75 cts.; channels, 1.70 cts.; tees, 1.70 cts.; angles, 1.35 to 1.65 cts.
Pittsburg—Beams, 1.50 to 1.60 cts.; channels, 1.55 cts.; tees, 1.55 cts.; angles, 1.40 cts.

PLATES AND SHEETS—
New York—Universal mill plates, 1.25 to 1.30 cts.; tank, 1.20 to 1.30 cts.; shell, 1.35 to 1.40 cts.; flange, 1.50 to 1.70 cts.; firebox, 2.10 to 2.30 cts.
Chicago—Universal mill plates, 1.30 cts.; tank, 1.25 to 1.35 cts.; shell, 130 cts.; flange, 1.40 to 1.45 cts.; firebox, 2.25 cts. and up; sheets, 3.10 to 3.20 cts.
Pittsburg—Universal mill plates, 1.30 to 1.40 cts.; tank, 1.30 to 1.40 cts.; shell, 1.25 to 1.30 cts.; flange, 1.30 to 1.35 cts.; firebox, 2.25 to 3.00 cts.; sheets, 3.00 cts.

MERCHANT STEEL—
Machinery, per lb., 1.80 to 2.00 cts.

IRON—
Pig iron:
New York—No. 1, $16.50 to $18; No. 2, $15.
Chicago—No. 1, $16 to $16.50; No. 2, $15 to $15.50.
Pittsburg—No. 1, $14 to $15; No. 2, $14 to $14.50.
Bar iron:
Pittsburg—1.10 to 1.15 cts.

LUMBER—
New York:
Hemlock timber, 20 ft. and under, per M, $16.00.
Piling, Eastern spruce, 35 to 40 ft., 30 to 40% 12-in. butts, 6 to 7 cts.
Yellow pine, random cargoes, $19 to $20.
North Carolina pine, $3.50 to $4.00 advance over Norfolk rates.
San Francisco:
Oregon pine, per M, $20 to $24.
Redwood boards and dimension timbers, per M, $19 to $20.
Redwood tank stock, up to 10 ft., $25.

GENERAL MATERIALS—
Lead, New York, 4.37 cts.
Spelter, per lb., 4.10 cts.
Copper ingots, 16.62 cts.

INDUSTRIAL NOTES.

THE NEW YORK MASTIC WORKS has removed its offices to 11 Broadway, New York.

THE SIEGRIST LUBRICATOR CO., St. Louis, Mo., announces that the Imperial Electric Light, Heat & Power Co., St. Louis, after a trial of a year has placed a duplicate order for the Siegrist automatic oiling system for some new units it is installing.

THE ILLINOIS BRIDGE & IRON CO., Sullivan, Ill., has been organized with a capital stock of $5,000. J. H. Baker, Pres., is owner of the local electric light plant; A. J. Patterson, Vice-Pres., is county treasurer; Halec Nilson, Secy. and Treas., is assistant cashier of the state bank of Sullivan; W. F. Logan is the general sales agent of the new company.

THE NEW ENGLAND STRUCTURAL CO., Boston, has been awarded the contract by the Boston & Maine R. R. for furnishing the superstructure for the new viaduct over Cambridge St., Charlestown, which has been made necessary by the elimination of the grade crossings at that point. The new superstructure is in four spans, with a total length of 326 ft. There is a line of centre trusses making two roadways 25 ft. wide, and there will be two 10-ft. sidewalks. The superstructure spans the tracks of the Eastern & Western Divisions and of the Grand Junction tracks of the Boston & Albany R. R.

THORNTON N. MOTLEY CO., New York, reports the following recent sales of the Jackson hand-power rock drill: Columbian National Ry. Co., Bogata, Columbia, S. A., 2 drills; Niagara Gorge Ry. Co., Buffalo; Peninsular R. R. Co., of Mexico, Progresso, Mex.; Spanish-American Iron Co., Santiago, Cuba, 2 drills; Davis Coal & Coke Co., Thomas, W. Va.; Van Roosbroek & Co., Brussels, Belgium, 2 drills; Crawford Mining Co., Hazel Green, Wis.; Secretary of Public Works, Tegucigalpa, Honduras; Engineer of Electric Commission, Baltimore, Md.; H. Glaenzer & Perreaud, Paris, France; Arkell & Douglass, New York (for Australia); Dayton Coal & Coke Co., Dayton, Tenn., 2 drills; Knauth, Nachod & Kuhne, New York (for Germany); Arthur F. Easton, Perth, W. Australia; Nickel Copper Co. of Ontario, Ltd., Worthington, Ont.; Harbison & Walker Co., Pittsburg, Pa.; Lawrence B. Gray, Paramaribo, Dutch Guiana; the Michoacan & Pacific R. R. Co., Ltd., Zitacuaro, Michoacan, Mexican; R. W. Cameron & Co., New York (for W. Australia), 15 drills.

The New Advertisements on Page XXI ("Wants") and Pages XXII--XXIII ("For Sale") May Interest You.

THEY GROW——Possibly They Bring Results——TRY THEM